

REMEDIAL INVESTIGATION REPORT/
REMEDIAL ACTION WORK PLAN
UNIMATIC MANUFACTURING CO., INC.
25 SHERWOOD LANE
FAIRFIELD, NEW JERSEY
ISRA CASE #E20010335
PROGRAM INTEREST #99235

PREPARED FOR:

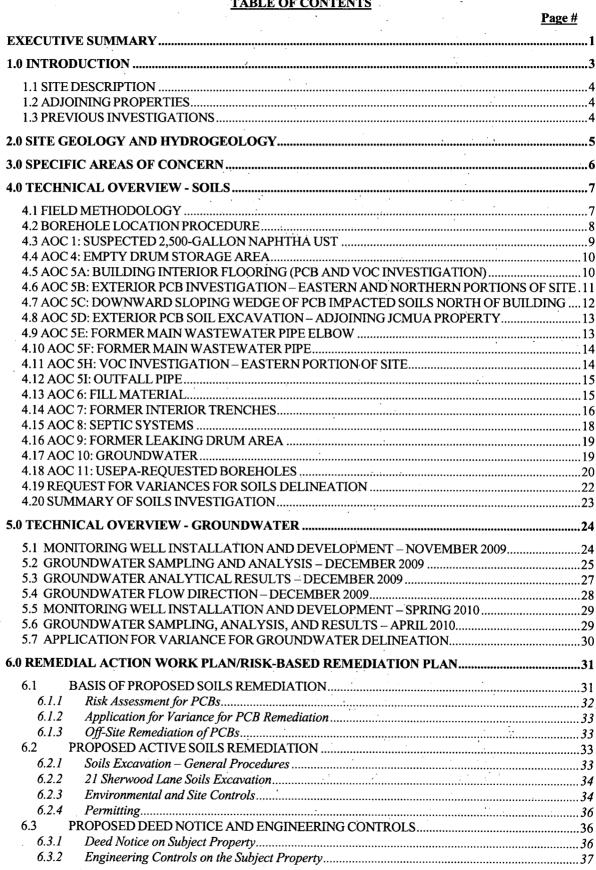
Unimatic Manufacturing Corporation 17 Toms Point Lane Lincoln Park, New Jersey

PREPARED BY:

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February 15, 2011 File No. 12.0075418.20

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EXECUTIVE SUMMARY

GZA GeoEnvironmental, Inc. (GZA) has prepared this Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) on behalf of Unimatic Manufacturing Corporation (Unimatic), regarding the property located at 25 Sherwood Lane, Fairfield, New Jersey (Site) for submittal to the New Jersey Department of Environmental Protection (Department) under the Industrial Site Recovery Act (ISRA) Case Number E20010335, and to the United States Environmental Protection Agency (USEPA) as a Risk-Based Remediation Plan pursuant to 40 CFR Part 761, under the USEPA's joint regulatory jurisdiction over the Site. Unimatic opted into New Jersey's Licensed Site Remediation Professional (LSRP) program on February 15, 2011.



Soils

GZA completed the delineation of polychlorinated biphenyls (PCBs) and other contaminants in the soils and groundwater in the 16 areas of concern designated by the NJDEP as requiring further investigation. On the Site, the PCB Non-Residential Direct Contact Soil Remediation Standard (NRDCSRS) of 1.0 milligram per kilogram (mg/kg) was used as the delineation goal with the assent of the property owner. The PCB Residential Direct Contact Soil Remediation Standard (RDCSRS) of 0.2 mg/kg was used for off-site delineation.

Six rounds of soil sampling were conducted on site and on the adjoining 30 Sherwood Lane and Jersey City Municipal Utilities Authority (JCMUA) properties. An additional six rounds of soil sampling were conducted on the adjoining 21 Sherwood Lane. In all, a total of 418 soil samples were sent to a laboratory for PCB analysis. Twenty-two soil samples were analyzed for other parameters as well. Horizontal and vertical delineation conformed to the delineation requirements of 7:26E-4.1, with some exceptions. The report requests variances from these requirements for those exceptions, and provides justification for each request.

The soils to the north of the Site building contained PCB exceedances well below the water table, in many cases to the top of bedrock. There are no areas to the north of the building or east of the northern portion of the building in which all of the soil column is below the NRDCSRS for PCBs.

The vast majority of impacted soils detected underneath the building were found beneath the central and northern portions of the building. Isolated "hot spots" were detected in soil samples collected within two feet of the building grade. PCB contamination in the northwest portion of the building and the Warehouse/Inventory Area was generally limited to the top eight feet of soils. Underneath the Receiving Room in the northeast corner of the building, PCB contamination did not extend deeper than 16 feet below grade (bg). No soil samples collected in the saturated zone within the building footprint contained PCBs at concentrations above the NRDCSRS.

None of the soil samples collected on the adjoining 30 Sherwood Lane property contained PCB exceedances. PCB contamination extending to the top of bedrock was detected on the JCMUA property, in a small area north of the northeast corner of the Site. In and around the undeveloped backyard of 21 Sherwood Lane, which adjoins the Site to the west, is a

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widespread but very shallow area in which PCB concentrations are above the RDCSRS, which is applicable there because it is an off-site property.

Backfill that originated on Site and was used after completion of the soil excavation activities in 2003 was found to be contaminated with PCBs. An average of ten feet of backfill that originated on Site is present along the former main waste water pipeline excavation. An average of eight feet of backfill that originated on Site is present in the former excavation areas north of the building.



Former Septic Systems

Two former septic tanks were encountered on the southern portion of the property. The tanks were emptied, power washed, and excavated. Thirty-seven drums of liquid wastes and sludge were generated and sent off-site for disposal. Soil samples collected around the tanks and the waste pipelines did not contain exceedances of any targeted compounds, except for one soil sample, for which a delineation variance is being requested.

Groundwater

To evaluate groundwater conditions downgradient of the existing monitoring wells, GZA installed three water table monitoring wells along the northern property boundary. These wells contained PCBs at concentrations ranging from 0.74 micrograms per liter (µg/l) to 1.9 ug/l, which exceed the PCB Ground Water Quality Standard (GWQS) of 0.5 μg/l. Two water table monitoring wells were subsequently installed north of these monitoring wells, on an offsite property. No PCBs were detected in these two wells, completing the northern delineation of PCBs at the Site.

Low-flow sampling was conducted in two intervals within the existing monitoring wells, at the request of the NJDEP. No discernable vertical gradient was detected by this interval testing of the wells.

Two monitoring wells were installed next to MW-4 in an attempt to vertically delineate the PCBs in MW-4, which contained the highest concentrations of PCBs in the Site groundwater. MW-4A, installed to the top of bedrock, contained lower concentrations of PCBs than MW-4, and MW-4B, installed into bedrock, contained PCBs at a concentration of 1.08 µg/l, still above the PCB GWQS of 0.5 µg/l. In this report, GZA requests a variance from the requirement for further vertical delineation of PCBs in groundwater.

Monitoring wells MW-4 and MW-4A also contained high concentrations of several chlorinated solvents. They did not contain exceedances of any base-neutral compounds (BNs). The chlorinated solvents are likely part of a plume of shallow VOC contamination that is flowing from the adjacent former General Hose property in the approximate direction of the Site. Furthermore, the Site is located within the Classification Exception Area (CEA) for chlorinated solvents from the Caldwell Trucking Superfund Site. Therefore, no further actions are recommended on the part of Unimatic for the VOCs in groundwater at the Site.

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The depth to groundwater on Site ranges widely from 16 to 21 feet bg on the southern ¾ of the Site to 7 to 11 feet bg along the northern boundary of the Site. The shallower groundwater flow direction along the northern boundary of the Site is affected by mounding along the JCMUA water pipeline property to the north. The result of this mounding is a steep southern groundwater gradient along the northern portion of the property, in contrast to the gentle north-northwest groundwater gradient in the southern ¾ of the property.

Remedial Action Work Plan Summary



GZA's risk assessment demonstrates that with the implementation of institutional controls and the installation of engineering controls where PCB-contaminated soils are present, PCBs will pose no significant risks to future receptors. Therefore, no soil excavation is proposed for the PCB-contaminated soils present on-site. The proposed institutional controls consist of a Deed Notice over the entire Site and establishment of a CEA beneath the northern portion of the Site. The proposed engineering controls consist of asphalt paving, and the building itself for soils located underneath the building footprint. In addition, a Deed Notice will be placed on the portion of the JCMUA property where deep PCB soil contamination exists. The report provides the rationale for variance from the requirement to remediate soils containing PCBs at a concentration greater than 50 mg/kg, the USEPA remediation standard that applies to this project.

PCB-contaminated soils on the adjoining 21 Sherwood Lane property will be excavated and replaced with certified clean fill.

1.0 INTRODUCTION WELCOP CAMY.

GZA GeoEnvironmental, Inc. (GZA) submits this Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) report on behalf of Unimatic Manufacturing Corporation (Unimatic), regarding the property located at 25 Sherwood Lane, Fairfield, New Jersey (Site) to the New Jersey Department of Environmental Protection (Department) and the United States Environmental Protection Agency (USEPA). The submittal is for the Industrial Site Recovery Act (ISRA) Case Number E20010335. This RAWP also serves as a Risk-Based Remediation Plan pursuant to 40 CFR Part 761, under the USEPA's joint regulatory jurisdiction of the Site, as described below.

On February 15, 2011, Unimatic opted into New Jersey's Licensed Site Remediation Professional (LSRP) Program. Mr. Benjamin Alter, Senior Vice President of GZA, was retained as the LSRP of Record for the Case.

The Remedial Investigation (RI) portion of the report describes the delineation activities conducted by GZA at the Site and neighboring properties. In a Notice of Violation letter from the Department received on March 17, 2009 (see **Appendix A**), the Department requested that GZA complete the delineation of polychlorinated biphenyls (PCBs) and other contaminants in the soils and groundwater at the Site and adjoining properties, as applicable, and perform a site investigation of the former septic tanks south of the Site building. The RAWP/Risk-Based

Remediation Plan portion of the report describes the recommended actions to mitigate the contamination that has been identified on and off the Site.

The various forms that are required to accompany this report are provided in **Appendix B**. Public outreach documentation is provided in **Appendix O**.

1.1 SITE DESCRIPTION



The 1.23-acre Site is located in an industrial area at the eastern end of Sherwood Lane (see **Figure 1**). The Fairfield Tax Assessor's office identifies the Site as Block 2302, Lot 8. The Site contains a single-story building and a partially paved parking lot, with a small landscaped area in front of the building to the south. The building was constructed for Unimatic in 1955, originally to serve as a tool shop, and later for die casting. Since 2002, Frameware, Inc. has used the building to manufacture and distribute picture frame hardware and fasteners.

1.2 ADJOINING PROPERTIES

Adjoining properties are as follows:

East: 30 Sherwood Lane, formerly owned by General Hose, now a multi-tenant

industrial property owned by 30 Sherwood Condominium Association

South: National Precision Tools Co.

West: 21 Sherwood Lane, operated by Financial Computer Services and owned by

CHA Properties, LLC

North: A long, narrow property owned by Jersey City Municipal Utilities Authority

(JCMUA), and used for its potable water delivery system. To the north of the

JCMUA property is 6 Kingsbridge Road, an industrial property.

1.3 PREVIOUS INVESTIGATIONS

GZA has previously submitted the following reports regarding this Case:

- "Underground Storage Tank and Aboveground Storage Tank Closure Report," submitted on January 16, 2002;
- "Preliminary Assessment Report," submitted on February 15, 2002;
- "Site Investigation Report," submitted on February 15, 2002;
- "Remedial Action Report," submitted on March 13, 2002;
- "Remediation Investigation Report/Remedial Action Workplan," submitted on October 29, 2002:
- "Remedial Investigation Report," submitted on November 5, 2003;
- "Supplemental Remedial Action Report," submitted on January 26, 2004;
- "Remedial Investigation Work Plan," dated June 9, 2005;
- "Second Supplemental Remedial Investigation Report," dated September 12, 2005;
- "Revised Remedial Investigation Work Plan," dated May 11, 2007; and
- "Revised Remedial Investigation Work Plan," dated April 17, 2009.

The Department agreed to the scope of work provided in the April 17, 2009 Remedial Investigation Work Plan (RIWP). In a letter dated September 23, 2009, GZA provided a schedule to the Department for the implementation of the approved RIWP. This schedule has since been revised through subsequent communications with the Department, and with the Department's consent.

2.0 SITE GEOLOGY AND HYDROGEOLOGY



On an 2004 aerogrammic survey conducted for the town of Fairfield, New Jersey, the Site elevation ranges from approximately 190 feet above the National Geodetic Vertical Datum 1988 (NGVD 88) on the south side of the Site to approximately 181 feet above the NGVD 88 in the northeastern corner of the Site. The JCMUA property to the north is six to eight feet lower in elevation than the adjoining northern portion of the Site. The elevation of the north portion of the building is two to four feet above the exterior grade.

The Passaic River is located approximately ½ mile northeast of the Site. An unnamed tributary to the Deepavaal Brook is located approximately 1,000 feet north of the Site, and an intermittent stream bed borders the Site to the north.

According to the Engineering Soil Survey of New Jersey (Rutgers University, 1951), the Site is located within the Piedmont Plateau subdivision of the Appalachian geographic province. Soil geology in the Site area is classified as GS-24pi, and is found on the lower rises and other low areas of the undulating plains in this area, and on the more poorly drained deposits along the valleys east of the Watchung Mountains. GS-24pi soil types in this area include silty sands, silty gravels, sandy gravels, and gravelly sands.

Studies conducted at the nearby Caldwell Trucking Superfund site encountered areas of glacial deposition overlying basalt flows. Groundwater flow occurs in a 25' deep sand and gravel aquifer confined below an impermeable clay layer at an average elevation of 160 ft above mean sea level. The water table is located approximately 5' to 15' below grade (bg). A fractured basalt zone is located below the sand/gravel aquifer at 100' to 125' above mean sea level (source: http://www.rtdf.org/PUBLIC/permbarr/prbsumms/profile.cfm?mid=10).

Four cross-sections of the subsurface at the Site are provided in Figures 2-2 and 2-3. Figure 2-1 shows the locations of these cross-sections. The areas where contaminated soils were excavated and replaced with clean fill are shown in dark brown on the cross-sections. Beneath the previously contaminated soil are soils alternately designated as silty sand or sandy silt. As shown in cross-sections A-A' and B-B', a thick clay layer is present along the northwest portion of the northern Site boundary. As shown on cross-section C-C', clay was also encountered at a depth of 15' to 25' below grade (bg) north of the Site building. GZA believes that this clay layer is the driver for the previously-identified downward sloping wedge of PCB contamination designated as AOC 5C (see Sections 3.0 and 4.7).

Bedrock at the Site was encountered between 34 and 38 feet bg and consists of basalt. Monitoring well MW-4B, which was installed to a depth of 60 feet bg, encountered water-bearing fractures between 38' bg and 43' bg, and between 55' and 60' bg (see Section 5.5).

In previous investigations, groundwater was encountered on Site at depths ranging from 16 to 21 feet bg, and was calculated to flow gently towards the north-northwest. Monitoring wells installed in the northwest corner of the property as part of this investigation encountered groundwater at depths ranging from 7 to 11 feet bg. In addition, groundwater on 30 Sherwood, which adjoins the Site to the east, was encountered at a depth of 8 to 9 feet bg, which is much higher than it was encountered on-Site. Groundwater at the Site was calculated to flow steeply to the south-southeast with the inclusion of the gauging data from the wells that were installed for this report. However, on the southern ¾ of the Site, the groundwater table is essentially flat.



3.0 SPECIFIC AREAS OF CONCERN

In a January 3, 2007 Notice of Deficiency (NOD) letter, the Department listed the following areas of concern (AOCs) for the Site:

AOC NO.	AOC NAME
1	Suspected 2,500-Gallon Naphtha Underground Storage Tank (UST)
\^2	Three 250-Gallon Naphtha Aboveground Storage Tanks (ASTs)
(3)	Fuel Oil UST
4	Empty Drum Storage Area
5A	Building Interior Flooring (PCB and VOC Investigation)
5B	Exterior PCB Investigation - Eastern and Northern Portions of the Site
5C	Downward Sloping Wedge of PCB Impacted Soils North of the Building
5D	Exterior PCB Soil Investigation - Adjoining JCMUA Property
5E	Former Main Wastewater Pipe Elbow
5F	Former Main Wastewater Pipe
3G	Former Northern Wastewater Pipe – Northwestern Portion
5H	VOC Investigation – Eastern Portion of the Site
5I	Outfall Pipe
6	Fill Material
7	Former Interior Trenches
8	Septic Systems
9	Leaking Drum
10	Groundwater

The NJDEP granted a No Further Investigation determination for AOCs 2, 3, and 5G in the NOD letter. These AOCs are not addressed in this document. Proposed sampling for the other 15 AOCs was provided in the approved RIWP.

At the request of Mr. Daniel Kraft and Dr. James Haklar of (USEPA Region II office in Edison, New Jersey, six additional boreholes were installed at the Site. These boreholes are hereby designated as AOC 11. The soil sampling results from this AOC are discussed in Section 4.18, below.

As indicated in the approved RIWP, the property owner will allow a deed notice to be established on this property. Consequently, the Department has allowed chemicals of concern on the Site to be delineated to the PCB Non-Residential Direct Contact Soil Remediation

Standard (NRDCSRS) of 1.0 milligram per kilogram (mg/kg). The NRDCSRS was used to guide on-site delineation of PCBs in soils. The Residential Direct Contact Soil Remediation Standard (RDCSRS) of 0.2 mg/kg was used for off-site delineation.

4.0 TECHNICAL OVERVIEW - SOILS



This Section describes GZA's field methodology and rationale for the borehole locations in the PCB investigation areas. **Figures 3 and 5** show the locations of all boreholes installed for this Case, including the boreholes installed for this report, as well as a summary of the PCB analytical results, as applicable. **Figure 4** shows the location of all boreholes from which soil samples were collected for analysis of chemicals other than PCBs, along with chemboxes summarizing the non-PCB results. Boreholes that were installed for testing of PCBs and other compounds are shown on both figures.

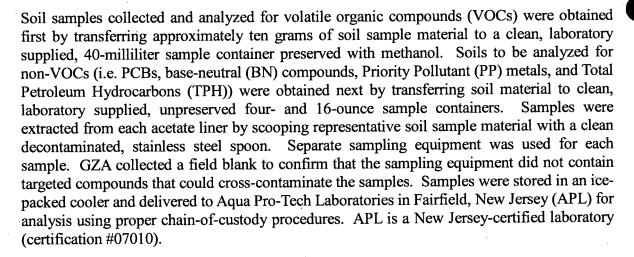
4.1 FIELD METHODOLOGY

GZA used truck-mounted GeoProbe drill rigs operated by Environmental Probing Investigations (EPI) of Cream Ridge, New Jersey and Hawk Drilling, Inc. (Hawk) of Washington, New Jersey to install soil borings for this project. EPI operated a Dingo-mounted GeoProbe drill rig inside the building because of limited access. The GeoProbe units were set up with hydraulic hammers to drive standard two-inch diameter, 48-inch long samplers installed with a clear acetate liner. No drilling fluids were used. The driller inserted a new acetate liner between each sample, and cleaned the in-hole boring equipment between sample locations.

GZA visually classified soils in accordance with the Modified Burmister System and assessed them for visual evidence of contamination and the presence of chemical odors. The soil cores were screened for airborne volatile compounds using a photoionization detector (PID). A log of each boring was prepared with appropriate stratification lines, sample identification, sample depth interval, recovery, and date. Soil boring logs are included as **Appendix C**.

Hawk used a hollow stem auger (HSA) drill rig in areas where the GeoProbe met with refusal, or was expected to meet with refusal based on previous exploration in that area. The HSA drill rig was set up with a hydraulic hammer to drive a two- or three-inch inside diameter, 24-inch long, split-spoon sampler with a 140-pound hammer falling thirty inches. The split-spoon sampler was decontaminated between each sampling interval.

Inside the building, EPI used a concrete corer machine equipped with a four-inch diameter, diamond-tipped bit to core through the building slab. Once the drill penetrated below eight to nine inches bg, a decontaminated, stainless steel three-inch hand auger bit equipped with a five-foot extension was used to collect the soil samples. The hand auger was field cleaned with an Alconox wash, tap water rinse and followed by a distilled water rinse prior to and after the installation of each boring. After sample collection, the borings were backfilled with the drill cuttings and capped with a water-repellant concrete patch to grade surface.





After sample collection, the borings were backfilled with the drill cuttings and leveled to ground surface. Inside the building the boreholes were topped with a water-repellant concrete patch to grade surface and drill cuttings were stored on-site in 55-gallon drums.

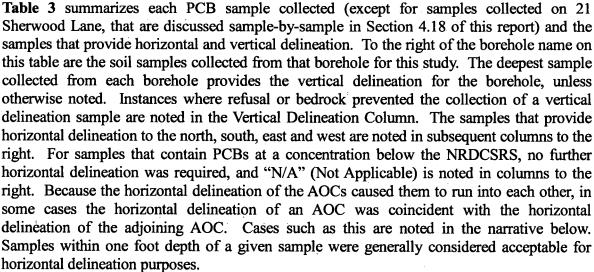
4.2 BOREHOLE LOCATION PROCEDURE

The first round of sampling was conducted at locations indicated on the Proposed Sampling Plan included in the approved RIWP, unless otherwise noted below. Exceedances detected in the first round of sampling were delineated in the second round of soil sampling. Each subsequent round of soil sampling attempted to delineate previously-detected exceedances horizontally and vertically. In all, there were six rounds of soil sampling conducted at the Site, on the following dates. Additional rounds of soil sampling were conducted on the adjoining 21 Sherwood Lane (see Section 4.18).

- Round 1: October 14 to November 2, 2009;
- Round 2: November 11 to 19, 2009;
- Round 3: November 30 to December 4, 2009;
- Round 4: December 16, 2009 to January 4, 2010;
- Round 5: January 25 to 29, 2010, and February 18, 2010;
- Round 6: March 9 and 25, 2010.

Boreholes that were installed at the location of an earlier borehole for vertical delineation purposes were given the name of the original borehole with a letter added at the end of the name. For instance, borehole SB-27A was installed for vertical delineation purposes at the same location as previously installed borehole SB-27. Similarly, borehole SB-27B was installed at a later date to provide vertical delineation of the deepest sample collected from SB-27A, and so on.

The following subsections discuss the field activities and results for each AOC. **Table 1** summarizes the results of the PCB analyses. **Table 2** summarizes the results of the non-PCB analyses.



collected from each borehole provides the vertical delineation for the borehole, unless otherwise noted. Instances where refusal or bedrock prevented the collection of a vertical delineation sample are noted in the Vertical Delineation Column. The samples that provide horizontal delineation to the north, south, east and west are noted in subsequent columns to the right. For samples that contain PCBs at a concentration below the NRDCSRS, no further horizontal delineation was required, and "N/A" (Not Applicable) is noted in columns to the right. Because the horizontal delineation of the AOCs caused them to run into each other, in some cases the horizontal delineation of an AOC was coincident with the horizontal delineation of the adjoining AOC. Cases such as this are noted in the narrative below. Samples within one foot depth of a given sample were generally considered acceptable for horizontal delineation purposes. Deviations from the approved RIWP are discussed in the relevant subsection. One significant

deviation from the approved RIWP was that no soil samples were collected below a depth of 37 feet bg. In the first round of borehole installation, bedrock refusal was met in several boreholes at depths of approximately 34 to 36 feet bg. Because of the uniformity in the depths at which bedrock was encountered, GZA assumed that the depth to bedrock is fairly uniform at the Site. For subsequent borehole installations, the boreholes were terminated no deeper than 36 feet bg, and the deepest soil samples collected for the purposes of vertical delineation were collected at 32 to 33 feet bg.

4.3 AOC 1: SUSPECTED 2,500-GALLON NAPHTHA UST

The table below contains the soil sampling proposed for this AOC in the approved RIWP.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)	Sample Analyses
SB-7A	,	Vertical delineation of SB-7	12.02	6.0' to 6.5'	
3D-/A		Vertical contingency of SB-7A-6	12.0'	10.0' to 10.5'	
SB-114	Near SB-7 8.0'		8.0'	6.0' to 6.5'	TD11
SB-115	INCAL SD-7	Horizontal delineation of SB-7	8.0'	6.0' to 6.5'	ТРН
SB-116		Horizontal defineation of SB-7	8.0'	6.0' to 6.5'	
SB-117			8.0'	6.0' to 6.5'	
AST-2D	Near AST-	Vertical delineation of AST-2C	24.02	15.5' to 16.0'	
A51-2D	2B/2C	Vertical contingency of AST-2D(16)	24.0'	23.5' to 24.0'	
arr a	Near AST-	Vertical delineation of SPE-8		15.5' to 16.0'	
SPE-8A	1B/1C and SPE-8	Vertical contingency of SPE-8A(16)	24.0'	23.5' to 24.0'	PCBs
SB-29A	Near SB-	Vertical delineation of SB-29	24.02	15.5' to 16.0'	
SB-29A 29	29	Vertical contingency of SB-29A(16)	24.0'	23.5' to 24.0'	

All three vertical delineation soil samples contained PCBs at concentrations below the NRDCSRS. Delineation is complete for PCBs in this AOC.

Of the five soil samples analyzed for TPH, sample SB-117-6 contained TPH at a concentration of 104 mg/kg, the highest concentration of TPH detected in this AOC. This concentration is well below the cleanup levels for petroleum of 5,100 mg/kg for diesel oil and 10,000 mg/kg for other petroleum products.

No further soil delineation activities are warranted for this AOC.



4.4 AOC 4: EMPTY DRUM STORAGE AREA

The table below contains the soil sampling proposed for this AOC in the approved RIWP.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)	Sample Analyses
SB-99			2.0'	Bias towards	
SB-100	Former	Test shallow soils in	2.0'	interval with field	PCBs, BNs,
SB-101	drum	AOC	2.0'	indicators of	PP metals
SB-102	storage area		2.0'	impact	
SB-103		Test deeper soils in AOC	10.0'	9.5' to 10.0'	VOCs

As shown on **Table 1**, several of the initial soil samples contained PCBs at concentrations above the PCB NRDCSRS. Additional delineation samples were collected and analyzed over the course of successive sampling rounds. **Table 3** provides the PCB delineation for each soil sample collected in this AOC. In general, this AOC is delineated as follows:

- North by soil samples collected from borehole SB-163 (below 15 feet bg), and soil samples collected along the northern property boundary for the shallower intervals;
- Northwest by soil samples collected from boreholes SB-162;
- South by soil samples collected inside the building;
- East by SB-101 and SB-102 for the shallower intervals, and by SB-164 for intervals below 15 feet bg;
- West by samples collected from borehole SB-161.

Borehole SB-103 could not be installed because of the presence of the loading dock, which was not penetrated at the request of Frameware, the property operator.

Table 2 summarizes the analytical results for the non-PCB analyses for this AOC. There were no exceedances of any targeted BN compound or PP metals in the soil samples collected from this AOC. No further soil delineation activities are warranted for this AOC.

4.5 AOC 5A: BUILDING INTERIOR FLOORING (PCB AND VOC INVESTIGATION)

Soil sampling in this AOC is described under AOC 7 (see below). As demonstrated in Section 4.14 of this report, no further soil delineation activities are warranted for this AOC.

<u>4.6 AOC 5B: EXTERIOR PCB INVESTIGATION – EASTERN AND NORTHERN</u> PORTIONS OF SITE

The table below contains the soil sampling proposed for this AOC in the approved RIWP. All samples were to be analyzed for PCBs.

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Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)
CDE 22 A	Name CDE 22	Vertical delineation of SPE-23	26.02	27.5' to 28.0'
SPE-23A	Near SPE-23	Vertical contingency of SPE23A(28)	36.0°	35.5' to 36.0'
CDE 07.4	NCDF 07	Vertical delineation of SPE-27	22.01	25.5' to 26.0'
SPE-27A	Near SPE-27	Vertical contingency of SPE27A(26)	32.0'	31.5' to 32.0'
CDE 20 A	N. CDE 20	Vertical delineation of SPE-28	22.03	25.5' to 26.0'
SPE-28A	Near SPE-28	Vertical contingency of SPE28A(26)	32.0'	31.5' to 32.0'
CDE 40 A	N CDE 42	Vertical delineation of SPE-42	20.03	14.0' to 14.5'
SPE-42A	Near SPE-42	Vertical contingency of SPE-42A(14)	20.0°	19.5' to 20.0'
CDC 10A	N CDF: 10	Vertical delineation of SPE-10	20.02	19.5' to 20.0'
SPE-10A	Near SPE-10	Vertical contingency of SPE-10A(20)	28.0'	23.5' to 24.0'
CD 56D	Near SB-51	Vertical delineation of SB-56A	40.03	31.5' to 32.0'
SB-56B	and SB-56A	Vertical contingency of SB-56B(32)	40.0'	39.5' to 40.0'
CDE 21 A	Near SPE-21	Vertical delineation of SPE-21	29.02	19.5' to 20.0'
SPE-21A	and PE-14	Vertical contingency of SPE-21A(20)	28.0'	27.5' to 28.0'

As shown on **Table 1**, several of the initial soil samples contained PCBs at concentrations above the PCB NRDCSRS. Additional delineation samples were collected and analyzed over the course of successive sampling rounds. **Table 3** provides the PCB delineation for each soil sample collected in this AOC. In general, this AOC is delineated as follows:

- North by soil samples collected on the JCMUA property (see Section 4.8, below);
- South by soil samples collected from boreholes SB-26, SB-27, and SB-60;
- East by soil samples 30-1 through 30-6, collected on the adjoining property at 30 Sherwood Lane;
- West by samples collected inside the building (see Section 4.14, below), and from the northern-sloping wedge (see Section 4.7, below).

The soil sample collected from soil boring SB-27C at a depth of 31.5' to 32' bg contained PCBs at a concentration of 1.09 mg/kg. This exceedance of the NRDCSRS was not delineated to the south. GZA hereby applies for a variance from the requirements of Section 7:26E-4.1 of the Technical Requirements for Site Remediation (TRSR) for this detection. The rationale for the variance is presented in Section 4.19 of this report.

No further soil delineation activities are warranted for this AOC.

4.7 AOC 5C: DOWNWARD SLOPING WEDGE OF PCB IMPACTED SOILS NORTH OF BUILDING

The table below contains the soil sampling proposed for this AOC in the approved RIWP. All samples were to be analyzed for PCBs.



Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)
SB-41B N	N. GD 41/41 A	Vertical delineation of SB-41A	36.0'	27.5' to 28.0'
	Near SB-41/41A	Vertical contingency of SB-41B(28)	30.0	35.5' to 36.0'
CD (0.4	Near SB-69 &	Vertical delineation of SB-69	20.0'	11.5' to 12.0'
SB-69A	SPE-37	Vertical contingency of SB-69A(12)	20.0	19.5' to 20.0'
CD #0.4	Near SB-70 and	Vertical delineation of SB-70	20.0'	11.5' to 12.0'
SB-70A	SPE-36	Vertical contingency of SB-70A(12)	20.0	19.5' to 20.0'
an san	N CD 50/50 A	Vertical delineation of SB-78A	28.0'	19.5' to 20.0'
SB-78B	Near SB-78/78A	Vertical contingency of SB-78B(20)	28.0	27.5' to 28.0'
	Near SB-82 and	Vertical delineation of SB-82	40.0'	31.5' to 32.0'
SB-82A	SPE-44	Vertical contingency of SB-82A(32)	40.0	39.5' to 40.0'
	Near SB-83/83A	Vertical delineation of SB-83A	49.02	39.5' to 40.0'
SB-83B	and SPE-43	Vertical contingency of SB-83B(40)	48.0'	47.5' to 48.0'
		Vertical delineation of SB-84A	48.0'	39.5' to 40.0'
SB-84B	Near SB-84/84A	Vertical contingency of SB-84B(40)		47.5' to 48.0'
	Near SB-85	Vertical delineation of SB-85	44.0'	35.5' to 36.0'
SB-85A		Vertical contingency of SB-85A(36)		43.5' to 44.0'
	CD 06/06A	Vertical delineation of SB-86A	52.0'	43.5' to 44.0'
SB-86B	Near SB-86/86A	Vertical contingency of SB-86B(44)	32.0	51.5' to 52.0'
		Vertical delineation of SB-87	44.0'	35.5' to 36.0'
SB-87A	Near SB-87	Vertical contingency of SB-87A(36)	44.0	43.5' to 44.0'
	GD 60	Vertical delineation of SB-89	44.0'	35.5' to 36.0'
SB-89A	Near SB-89	Vertical contingency of SB-89A(36)	44.0	43.5' to 44.0'
		Vertical delineation of SB-92	16.0'	7.5' to 8.0'
SB-92A	Near SB-92	Vertical contingency of SB-92A(8)	16,0	15.5' to 16.0'
		Vertical delineation of SPE-31	20.0'	11.5' to 12.0'
SPE-31A	Near SPE-31	Vertical contingency of SPE-31A(12)		19.5' to 20.0'
		Vertical delineation of SPE-33	24.02	15.5' to 16.0'
SPE-33A	Near SPE-33	Vertical contingency of SPE-33A(16)	24.0'	23.5' to 24.0'
		Vertical delineation of SPE-34	24.0'	15.5' to 16.0'
SPE-34A	Near SPE-34	Vertical contingency of SPE-34A(16)	24.0	23.5' to 24.0'

As shown on **Table 1**, several of the initial soil samples contained PCBs at concentrations above the PCB NRDCSRS. Additional delineation samples were collected and analyzed over the course of successive sampling rounds. **Table 3** provides the PCB delineation for each soil sample collected in this AOC. In general, this AOC is delineated as follows:

- North by soil samples collected from boreholes along the JCMUA boundary, and on the JCMUA property (see Section 4.8, below). The shallow samples are delineated horizontally to the north because there are no soils at those shallow intervals due to the slope down to the JCMUA property;
- South by soil samples collected from boreholes SB-41 and boreholes installed inside the Site building (see Section 4.14, below);
- East by soil samples 30-1 through 30-6, collected on the adjoining property at 30 Sherwood Lane:
- West by samples collected from AOC 4 (see Section 4.4, above).

No further soil delineation activities are warranted for this AOC.

4.8 AOC 5D: EXTERIOR PCB SOIL EXCAVATION – ADJOINING JCMUA PROPERTY

The table below contains the soil sampling proposed for this AOC in the approved RIWP. All samples were to be analyzed for PCBs.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)
SB-37A	Near SB-40, adjacent and north of Site, on	Horizontal delineation of SB-38	16.0'	10.0' to 10.5'
		Vertical contingency of SB-37A(10)		15.5' to 16.0'
SB-40A	Jersey City Municipal Utility Authority	Horizontal delineation of SB-38	16.00	10.0' to 10.5'
SB-40A	property.	Vertical contingency of SB-40A(10)	16.0'	15.5' to 16.0'

As shown on **Table 1**, three soil samples collected from borehole SB-37A contained PCBs at concentrations above the PCB NRDCSRS. Soil samples collected from boreholes SB-39A completed the horizontal delineation of these samples. Boreholes JC-2 and JC-4 were installed in this AOC to assist in the horizontal delineation of other AOCs. None of the samples collected from these two boreholes contained detectable concentrations of PCBs. No further soil delineation activities are warranted for this AOC.

4.9 AOC 5E: FORMER MAIN WASTEWATER PIPE ELBOW

The table below contains the soil sampling proposed for this AOC in the approved RIWP. All samples were to be analyzed for PCBs.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)
SB-105	South of SPE-10	Horizontal delineation of SPE-10	24.0'	15.5' to 16.0'
		Vertical contingency of SB-105(16)		23.5' to 24.0'
SB-113	North of SPE-10	Horizontal delineation of SPE-10	24.01	15.5' to 16.0'
		Vertical contingency of SB-113(16)	24.0'	23.5' to 24.0'

No PCBs were detected in the soil sample collected from borehole SB-105 at 15.5' to 16' bg. The soil sample collected from borehole SB-113 at 15.5' to 16' bg contained PCBs at a



concentration of 138 mg/kg. The deeper contingency sample did not contain detectable concentrations of PCBs. The exceedance is delineated horizontally as follows:

- North by a soil sample collected from boreholes SB-119;
- South by the soil sample collected from borehole SB-105;
- East by a soil sample collected from borehole SB-61A/61B;
- West by a soil sample collected from borehole SB-46.

No further soil delineation activities are warranted for this AOC.



4.10 AOC 5F: FORMER MAIN WASTEWATER PIPE

The table below contains the soil sampling proposed for this AOC in the approved RIWP. All samples were to be analyzed for PCBs.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)
SB-94A	Near SB-94	Resampling of SB-94 (28.5-29)	30.0'	28.5' to 29.0'
an 0.5		Horizontal delineation of SB-92	8.0'	3.0' to 3.5'
SB-95	West of SB-92	Vertical contingency of SB-95(3)	8.0	7.5' to 8.0'
0.		Horizontal delineation of SB-92	8.0'	3.0' to 3.5'
SB-96	North of SB-92	Vertical contingency of SB-96(3)	8.0	7.5' to 8.0'
	27 1 607 00	Horizontal delineation of SB-93	9.02	3.0' to 3.5'
SB-97	North of SB-93	Vertical contingency of SB-97(3)	8.0'	7.5' to 8.0'
		Horizontal delineation of SB-85		3.0' to 3.5'
SB-98	East of SB-93	Horizontal delineation of SB-85	32.0'	23.5' to 24.0'
		Horizontal delineation of SB-85		28.5' to 29.0'
		Vertical delineation of TP-1	20.03	15.5' to 16.0'
TP-1A	Near TP-1	Vertical contingency of TP-1A(12)	20.0'	19.5' to 20.0'

As shown on **Table 1**, several of the initial soil samples contained PCBs at concentrations above the PCB NRDCSRS. Additional delineation samples were collected and analyzed over the course of successive sampling rounds. **Table 3** provides the PCB delineation for each soil sample collected in this AOC. In general, this AOC is delineated as follows:

- North by a soil sample collected on the JCMUA property (see Section 4.8);
- South by soil samples collected from several boreholes, as indicated on Table 3;
- East by soil samples collected from several boreholes, as indicated on Table 3;
- West by soil samples collected from boreholes SB-136, SB-95, SB-97, and SB-93.

No further soil delineation activities are warranted for this AOC.

4.11 AOC 5H: VOC INVESTIGATION - EASTERN PORTION OF SITE

The table below contains the soil sampling proposed for this AOC in the approved RIWP. All samples were to be analyzed for VOCs.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)
SB-36A	Near SB-36	Retest for VOCs	16.0'	Zone with highest PID reading



A soil sample was collected from this borehole at 15.5' to 16' bg, the interval with the greatest field indicators of contamination. No targeted VOCs were detected in this soil sample. No further soil delineation activities are warranted for this AOC.

4.12 AOC 5I: OUTFALL PIPE

The delineation at TP-1 is addressed under AOC 5F (see above). As shown in Section 4.10 of this report, no further soil delineation activities are warranted for this AOC.

4.13 AOC 6: FILL MATERIAL

The table below contains the soil sampling proposed for this AOC in the approved RIWP. All samples were to be analyzed for PCBs.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)
SB-108	Backfilled area		16.0'	
SB-109		The second of th	16.0'	Sample of
SB-110		Test native soils used as backfill	16.0'	native soils
SB-111			16.0'	

On October 15, 2009 boreholes SB-108 through SB-111 were installed at the locations shown on **Figure 5**. Native soils were sampled from 7.5' to 8.0' bg in boreholes SB-108, SB-110, and SB-111, and from 12.5' to 13.0' bg in borehole SB-109. The native soil samples collected from SB-108, SB-110, and SB-111 all contained PCBs at concentrations above 100 mg/kg (see **Table 1**). The native soil sample from SB-109 contained PCBs at a concentration below the NRDCSRS of 1.0 mg/kg.

To further characterize the native backfill in this area, GZA collected multiple samples of native backfill from each of the four boreholes. GZA also installed boreholes SB-171 through SB-174 in between these boreholes and collected multiple samples of native backfill from each of the boreholes. In addition, boreholes SB-147 through SB-150 were installed through the backfill in AOC 5C, north of the building. Several soil samples were collected from each of these boreholes as well. No boreholes were warranted in the backfill in AOC 1, since the soils in this AOC were contaminated by a surface spill from above-ground storage tanks, and no native backfill was installed in that area. In all, 32 soil samples of native backfill were collected and analyzed for PCBs.

The boreholes encountered generally native backfill in the top ten feet in the boreholes along the former main waste water pipeline, with the exception of borehole SB-110, which encountered native backfill to its final depth of 16 feet bg. The boreholes north of the building encountered generally native backfill in the top eight feet.

Along the former main waste water pipeline, only four of the 21 samples of native backfill collected contained PCBs at concentrations below the PCB NRDCSRS. Several of the 21 samples of native backfill from this area contained very elevated concentrations of PCBs, ranging as high as 1,180 mg/kg. Excepting the samples collected from SB-111, all of the soil samples collected below ten feet bg contained PCBs at concentrations ranging no higher than 20.8 mg/kg.

Similar results were obtained from the samples of native backfill collected north of the building. Only two of the ten samples of native backfill from this area contained PCBs at concentrations below the PCB NRDCSRS, and several of the samples of native backfill contained very elevated concentrations of PCBs, ranging as high as 2,800 mg/kg. The soil samples collected below eight feet bg in this area contained PCBs at concentrations ranging no higher than 6.78 mg/kg.

4.14 AOC 7: FORMER INTERIOR TRENCHES

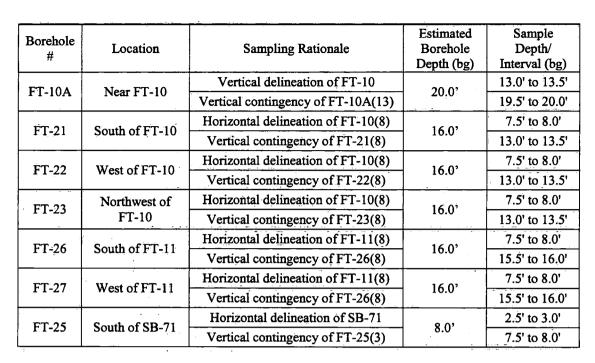
The table below contains the soil sampling proposed for this AOC in the approved RIWP. All samples were to be analyzed for PCBs. Not included in this AOC are boreholes installed at the request of USEPA. These boreholes are described under AOC 11 (see Section 4.18, below).

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)
TT 40	N. FT 4D	Vertical delineation of FT-4B	20.0'	15.5' to 16.0'
FT-4C	Near FT-4B	Vertical contingency of FT-4C(16)	20.0	19.5' to 20.0'
		Horizontal delineation of FT-4(3)		3.0' to 3.5'
FT-28	North of FT-4B	Horizontal delineation of FT-4(8)	12.0'	8.0' to 8.5'
		Vertical contingency of FT-28(8)		11.5' to 12.0'
0.00		Horizontal delineation of FT-5(3)		3.0' to 3.5'
FT-19	South of FT-5	Horizontal delineation of FT-5(8)	16.0'	8.0' to 8.5'
		Vertical contingency of FT-19(8)		13.0' to 13.5'
		Vertical delineation of FT-6	24.0'	19.5' to 20.0'
FT-6A	Near FT-6	Vertical contingency of FT-6A(20)	24.0	23.5' to 24.0'
		Horizontal delineation of FT-6(3)		3.0' to 3.5'
FT-24	West of FT-6	Horizontal delineation of FT-6(9)	12.0'	9.0' to 9.5'
		Vertical contingency of FT-24(9)	,	11.5' to 12.0'
· · · · · · · · · · · · · · · · · · ·		Vertical delineation of FT-7	16.02	7.5' to 8.0'
FT-7A	Near FT-7	Vertical contingency of FT-7A(8)	16.0'	15.5' to 16.0'
7.5		Horizontal delineation of FT-7(2)	0.03	2.0' to 2.5'
FT-20	West of FT-7	Vertical contingency of FT-20(2)	8.0'	7.5' to 8.0'

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Because of access issues, the following changes were made to the approved RIWP:

- Soil boring FT-4C was moved 7' to the southwest due to the presence of permanently installed shelves at the proposed location;
- Soil boring FT-19 was moved 1.5' feet north due to the same shelving;
- Soil boring FT-21 was moved 8' northwest due to refusal at 5' bg;
- Soil boring FT-28 was moved 6' west due to the above-referenced shelving.

Delineation of identified contamination was prevented by the presence of subsurface refusal in the following boreholes at the following depths:

- FT-19A at 11.5' bg;
- FT-36A at 2.5' bg:
- FT-47 at 1.0' bg:
- FT-48 at 3.0' bg:
- FT-49 at 2.5' bg;
- FT-50 at 16.0' bg;
- FT-51 at 4.0' bg.

As shown on **Table 1**, several of the initial soil samples contained PCBs at concentrations above the PCB NRDCSRS. Additional delineation samples were collected and analyzed over the course of successive sampling rounds. **Table 3** provides the PCB delineation for each soil sample collected in this AOC. In general, this AOC is delineated as follows:

- North by exterior AOCs 4 and 5C (see Sections 4.4 and 4.7);
- South by soil samples collected from boreholes EPA-4, FT-48, FT-49, FT-26, and FT-29;
- East by AOCs 1 and 5E (see Sections 4.3 and 4.9);

• West by several soil samples collected along the western property boundary.

No further soil delineation activities are warranted for this AOC.

4.15 AOC 8: SEPTIC SYSTEMS

The table below contains the soil sampling proposed for this AOC in the approved RIWP.



Borehole #	Location	Sampling Rationale	Estimated Borehole Depth	Sample Depth/ Interval (bg)	Sample Analyses
SB-107	Former			0' to 2' below bottom of tank	
Sludge-1 Aqueous-1	septic tank area	Inside the septic tank	Tank contents	Composite sample	PCBs, VOCs, and
SB-108	Suspected former	2 South of Septic tank		0' to 2' below bottom of tank	PP metals
Sludge-2 Aqueous-2	septic tank area	Inside the septic tank	Tank contents	Composite sample	

On October 27 and 28, 2009, Active Environmental Technologies, Inc. (ARS) of Mount Holly, New Jersey installed test pits in an attempt to locate the septic tanks. The eastern septic tank was discovered approximately ten feet south of the building. The septic tank was ten feet in length, six feet wide and eight feet deep. The tank had cinder block side walls and a concrete lid. Also identified were four two-inch diameter pipes at a depth of approximately three feet bg. Excavations traced these pipes to the street, as shown on **Figure 3**.

ARS broke open the concrete lid so that GZA could collect composite sludge and aqueous samples from the septic tank. Soil samples in both the upgradient and downgradient directions were also collected from six inches below the bottom of the tank. GZA installed borehole SB-107 two feet south of the septic tank and collected a soil sample less than two feet below the bottom of the tank to be analyzed for PCBs and PP metals. Another sample was collected two feet north of the septic tank to a depth less than two feet below the bottom of the tank, also to be analyzed for PCBs and PP metals.

No exceedances of any targeted compounds were detected in the soil samples collected from below the septic tank. The sludge sample contained PCBs at a concentration of 37.3 mg/kg. No exceedances of any targeted compound were detected in the aqueous sample.

After the collection of sludge and aqueous samples, the sludge was removed and stored in 55-gallon drums that were staged on-site. ARS then power cleaned and scrubbed the side walls and surface of the septic tank. The wash water was then collected into 55-gallon drums and stored on-site.

While cleaning the septic tank on December 2 and 8, 2009, another septic tank was discovered on Site. The septic tanks shared a wall and had identical dimensions. GZA conducted the same activities in the area of the second septic tank as it had for the first, and collected soil sample SB-108 downgradient of the tank and samples of the sludge and water inside the tank.

The samples were analyzed for the same parameters mentioned above. None of the samples contained exceedances of any targeted compounds.

On December 17, 2009, four soil samples were collected from beneath the septic tank pipes, one for each pipe (see **Figure 3** for sampling locations). The soil samples, labeled PIPE-1 through PIPE-4, were analyzed for PCBs. None of the soil samples contained PCBs at a concentration above the PCB NRDCSRS. One sample, collected from 2.5' to 3' bg in borehole PIPE-4, contained PCBs at concentrations above the PCB RDCSRS. This sample was collected along Sherwood Lane. GZA hereby applies for a variance from the requirement to delineate this sample off-site to the south, beneath Sherwood Lane (see Section 4.19).

In all, 37 55-gallon drums of solid and liquid wastes from the septic tanks were generated. On January 18, 2010, ARS removed the drums from the Site. The fully executed manifests for the disposal of the drum contents are provided in **Appendix E**.

No further soil delineation activities are warranted for this AOC.

4.16 AOC 9: FORMER LEAKING DRUM AREA

The table below contains the soil sampling proposed for this AOC in the approved RIWP.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)	Sample Analyses
Pink-1A	East of on-Site building near Pink-1	Native soils in Pink-1 vicinity	28.0'	27.5' to 28.0'	PP+40

Table 1 provides the vertical delineation results for soil sample Pink-1A, collected from 27.5' to 28' bg. It contained exceedances of PCBs and trichloroethene (TCE), a targeted VOC. Pink-1B was collected from 33.5' to 34' bg to provide vertical delineation of Pink-1A. It, too, contained exceedances of PCBs. This sample was collected near the top of bedrock; therefore, no further vertical delineation was performed. Sample Pink-1B was not analyzed for VOCs because the chlorinated solvents are not attributable to former Site operations (for a more complete discussion of this issue, see Section 5.3 of this report). No further soil delineation activities are warranted for this AOC.

4.17 AOC 10: GROUNDWATER

Despite the name of this AOC, soil sampling as well as groundwater sampling (discussed in Section 5.0 of this report) was specified in the approved RIWP for this AOC. The purpose of the soil sampling was to determine the stratigraphy at locations where permanent wells had been installed. The table below contains the soil sampling proposed for this AOC in the approved RIWP.

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)	Sample Analyses
SB-104	Near MW-5	Stratigraphy of MW-5	25.0'	No Sample	Not Applicable

Borehole #	Location	Sampling Rationale	Estimated Borehole Depth (bg)	Sample Depth/ Interval (bg)	Sample Analyses
SB-106	Near MW-1	Stratigraphy of MW-1	30.0'	No Sample	Not Applicable
SB-112	Near MW-4	Test for presence of VOCs and TPH	25.0'	25.0' to 25.5'	VOC & TPH

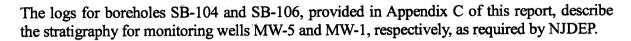




Table 2 provides the vertical delineation results for the soil samples collected from borehole SB-112. The soil sample collected from the above-referenced interval contained TPH at a concentration of 3,260 mg/kg. It did not contain any targeted VOCs above their respective IGWSRS. Delineation is complete for this AOC.

4.18 AOC 11: USEPA-REOUESTED BOREHOLES

Six boreholes, designated EPA-1 through EPA-6, were installed on the Site as requested by USEPA in our November 2009 meeting, at locations approved by the USEPA. EPA-1, EPA-2, and EPA-3 were installed outside the building along the western property boundary, and EPA-4, EPA-5, and EPA-6 were installed inside the building, on the west side. Soil samples were collected from each borehole at 0.5' to 1' bg, 2.5' to 3' bg, 7.5' to 8' bg, and 11.5' to 12' bg, as requested by the USEPA. All soil samples were analyzed for PCBs.

The following soil samples contained PCBs at a concentration above the NRDCSRS:

- The soil sample collected from EPA-3 at 0.5' to 1' bg contained PCBs at a concentration of 58 mg/kg;
- The soil sample collected from EPA-3 at 2.5' to 3' bg contained PCBs at a concentration of 93.3 mg/kg;
- The soil sample collected from EPA-5 at 0.5' to 1' bg contained PCBs at a concentration of 9.5 mg/kg;
- The soil sample collected from EPA-6 at 0.5' to 1' bg contained PCBs at a concentration of 2.1 mg/kg;
- The soil sample collected from EPA-6 at 2.5' to 3' bg contained PCBs at a concentration of 3.8 mg/kg.

Soil borings SB-157, SB-158, and SB-159 were installed on site to provide horizontal delineation of the exceedances detected in borehole EPA-3. In addition, borehole 21-1 was installed on the adjoining property to the west for horizontal delineation purposes. Borehole 21-2 was also installed on that property as a contingency if any soil samples collected from borehole 21-1 contained exceedances of PCBs. Boreholes FT-36, FT-37, FT-38, and FT-39 were installed inside the building to provide horizontal delineation of EPA-5. Boreholes FT-39, FT-40, FT-41, and FT-42 were installed inside the building to provide horizontal delineation of EPA-6.

The delineation activities extended onto the western adjoining property known as 21 Sherwood Drive. After entering into an access agreement with the owners, CHA Properties,

Inc., GZA proceeded to conduct six rounds of soil sampling on the property: on January 17, June 4, July 1, July 27, August 24, and September 29, 2010. Delineation proceeded until the PCB RDCSRS rather than the PCB NRDCSRS was achieved because the delineation activities occurred off-site.

As shown on **Table 1**, several of the initial soil samples contained PCBs at concentrations above the PCB RDCSRS. Additional delineation samples were collected and analyzed over the course of successive sampling rounds. **Table 3** provides the PCB delineation for each soil sample collected in this AOC. Because most of the exceedances on 21 Sherwood were below the NRDCSRS, which was the standard employed on the Site, horizontal delineation to the east was generally not warranted. In the other three directions, this AOC is delineated as follows:



- North by soil samples collected from boreholes 21-9, 21-10, and 21-18;
- West by soil samples collected from boreholes 21-26, 21-33, 21-24, and 21-30;
- South by soil samples collected from boreholes 21-31, 21-5, 21-30, 21-16, 21-28, and 21-23.

A few exceedances of the RDCSCS remain not fully delineated horizontally, as shown in the table below:

Borehole #	Depth	PCBs (mg/kg)	Directions
21-15	0.5 to 1.0'	0.42	West
21-24	0 to 0.5'	0.39	West and south
21-26	0 to 0.5'	0.22	West and north
21-27	0 to 0.5'	0.32	West, east, and north
21-29	0 to 0.5'	0.29	North

In addition, the following exceedances have not been fully delineated vertically:

Borehole #	Depth	PCBs (mg/kg)
21-24	0 to 0.5'	0.39
21-26	0 to 0.5'	0.22
21-27	0 to 0.5'	0.32
21-29	0 to 0.5'	0.29
21-20	0 to 0.5'	0.38

GZA hereby applies for a variance from the requirement to delineate these samples (see Section 4.19). No further investigation activities are warranted for this AOC regarding PCBs.

In boreholes 21-4A and 21-11A, black-stained soils with elevated PID readings were encountered from 4' to 8' bg. GZA collected soil samples for PCB analysis from 8 feet bg in these boreholes. Neither sample contained detectable concentrations of PCBs, indicating that this contamination is unrelated to the PCB issue at 25 Sherwood Lane. To assess whether VOC contamination from this area extended from 21 Sherwood onto the Site, three boreholes, SB-157A, SB-176A, and SB-177, were installed across the property boundary from 21-11A

on the Site. Soil samples were collected for VOC analysis from 8' bg, which was generally the zone with the highest PID readings. None of the three soil samples contained detectable concentrations of any targeted VOC.

4.19 REQUEST FOR VARIANCES FOR SOILS DELINEATION

GZA hereby requests a variance from the requirement for horizontal delineation of PCBs in a soil sample collected in borehole SB-27C at a depth of 31.5 to 32 feet bg. The rationale for the variance request from the requirements of Section 7:26E-4.1 is as follows:

- The detected PCB concentration of 1.09 mg/kg is well within measurement error of the NRDCSRS of 1.0 mg/kg;
- There were no facility operations, pipelines, or other means by which the area to the south of SB-27C would have become contaminated with PCBs. The entire Site will be placed under a Deed Notice (see Section 6.3.1). As such, human health and the environment will be protected without additional horizontal delineation of PCBs at this location at the Site; and
- The risk assessment, which was performed to satisfy USEPA requirements, has demonstrated that no risk is posed at the Site by PCB contamination that is deeper than two feet bg (see Section 6.1 of this report).
- The work already conducted has achieved the objectives of delineation as called for under Section 7:26-4.1, and will achieve the goal of complete soil delineation.

GZA hereby requests a variance from the requirement for off-site horizontal delineation of PCBs in a soil sample collected in borehole PIPE-4 at a depth of 2.5 to 3 feet bg near Sherwood Lane in front of the Site. The rationale for the variance request on the requirements of Section 7:26E-4.1 is as follows:

- Drilling beneath Sherwood Lane would require extensive and costly permitting;
- The road already provides a cap that prevents exposure to passers-by, and it is highly unlikely that this road will ever be demapped and converted to another use in the future. As such, any PCBs south of PIPE-4 would not impact human health and the environment.
- The work already conducted has achieved the objectives of delineation as called for under Section 7:26-4.1, and will achieve the goal of complete soil delineation.

GZA hereby requests a variance from the requirement for horizontal and vertical delineation of PCBs in the soil samples listed in the two tables provided in Section 4.18 of this report. The rationale for the variance request from the requirements of Section 7:26E-4.1 is as follows:

- The PCB concentrations in the soil samples that have not been horizontally delineated are very close to the residential standard. Rather than continuing delineation and delaying the submittal of this report, GZA intends to address this issue at the time of remediation, by over-excavating the impacted areas at the time of remediation in order to collect acceptable post-excavation samples (see Section 6.2.3).
- Regarding the five soil samples that have not been vertically delineated, numerous soil

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samples collected in this area for vertical delineation purposes revealed that the PCB contamination is very shallow, typically within the top foot of soil. GZA will verify this hypothesis at the time of remediation, by collecting bottom samples in and around these locations (see Section 6.2.3).

• The work already conducted has achieved the objectives of delineation as called for under Section 7:26-4.1, and will achieve the goal of complete soil delineation.

4.20 SUMMARY OF SOILS INVESTIGATION

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GZA has conducted an extensive supplementary remedial investigation for PCB and non-PCB compounds at the Site. The investigation entailed the installation of dozens of boreholes both inside and outside the on-site building, and the collection of one or more samples from those boreholes. There were no exceedances of the RDCSRS, the NRDCSRS, or the Impact to Ground Water Soil Screening Levels (IGWSSL) for any targeted non-PCB compounds at the Site. Accordingly, no further actions are recommended for non-PCB compounds in the soils at the Site.

The following discussion summarizes the findings of the investigation with respect to PCBs.

Soils within the building footprint

No soil samples collected beneath the southern portion of the building contained PCBs at concentrations above their NRDCSRS. Under the northern portion of the building, there were numerous exceedances of the PCB NRDCSRS, and isolated "hot spots" in near surface soil samples, i.e. samples collected within two feet of the building grade. Under the northwest portion of the building, labeled the Shipping Room and the Pressing Room on Figure 3, there were no exceedances of the PCB NRDCSRS in any soil sample collected below 8 feet bg. Under the Warehouse/Inventory Area (see Figure 3), there were three exceedances below 8 feet bg, but no exceedances of the PCB NRDCSRS below 13.5 feet bg. Under the Receiving Room in the northeast corner of the building, there were numerous exceedances of the PCB NRDCSRS below 8 feet bg, but no exceedances below 16 feet bg. No soil samples collected in the saturated zone within the building footprint contained PCBs at concentrations above the NRDCSRS.

Soils outside the building footprint

In front of the building, on the southern portion of the Site, there were no detections of PCBs at concentrations above the NRDCSRS. No further actions are required for the soils on the southern portion of the Site.

Along the western portion of the Site, there were several exceedances of the RDCSRS, which resulted in delineation soil sampling across the property boundary onto 21 Sherwood Lane. No PCBs were detected in the two soil samples collected near the developed portion of 21 Sherwood Lane. However, in and around the undeveloped backyard of 21 Sherwood Lane is a widespread but very shallow area of PCB contamination with PCB concentrations above the RDCSRS, which is applicable there because it is an off-site property.

The soils on the northern portion of the Site contain PCB exceedances to depths well below the top of the water table. The impacted soils appear to form a northeast sloping wedge, beginning near the surface along the east portion of the building's northern wall. The formation of this wedge may have been influenced by a large clay layer that is present in the northern portion of the Site and becomes the dominant soil type as one approaches the northern Site boundary. Soil contamination extends down to bedrock within the wedge of contaminated soils.



PCB exceedances extended to the northern property boundary. Soil samples collected on the western portion of the adjoining JCMUA property did not contain exceedances of PCBs (note: because the JCMUA property is at a much lower elevation than the Site, sampling depths for horizontal delineation do not match up.) Soil samples collected from one borehole, SB-37/37A, contained PCBs at concentrations exceeding the PCB RDCSRS to a depth of 30 feet bg, at which point bedrock was encountered.

Soils containing PCBs at concentrations above the PCB NRDCSRS are present along the northeastern side of the building north of monitoring well MW-1. Contamination extends down to bedrock in many of the soil borings installed in this area. None of the 18 soil samples collected in this round of soil sampling on the adjoining property at 30 Sherwood Lane contained detectable concentrations of PCBs. In fact, only one of the 29 soil samples collected on this property as part of the Unimatic investigation contained detectable concentrations of PCBs, and that sample contained PCBs at a concentration below the RDCSCC in effect at that time.

Native Backfill

Most of the native soils that were used as backfill for the previous soil remediation activities contain PCBs at concentrations above the PCB NRDCSRS. These soils generally extend to a depth of 10 feet bg, although at least one borehole detected native backfilled soils as deep as 16 feet bg. PCB concentrations in the native backfill range as high as 2,800 mg/kg.

5.0 TECHNICAL OVERVIEW - GROUNDWATER

To evaluate groundwater conditions downgradient of the existing monitoring wells, GZA installed four monitoring wells along the northern property boundary, followed by the installation of two monitoring wells off-site to the north of the property. In addition, two monitoring wells were installed next to existing monitoring well MW-4 for vertical delineation of PCBs. The groundwater investigation and its findings are discussed below.

5.1 MONITORING WELL INSTALLATION AND DEVELOPMENT - NOVEMBER 2009

From November 24 to 26, 2009, Hawk used a hollow stem auger rig to install permanent groundwater monitoring wells MW-4A, MW-7, MW-8, MW-9, and MW-10 at the locations shown on **Figure 6**. Wells MW-7 through MW-10 were installed at locations that were thought to be downgradient (i.e., north) of existing monitoring wells MW-5, MW-3, MW-6, and MW-2, respectively, as described in the approved RIWP. Monitoring well MW-4A was

installed next to the existing shallow monitoring well MW-4 to vertically delineate the PCB contamination detected in MW-4.

The drilling equipment was cleaned between each boring. Ms. Catherine Fang, Environmental Engineer I, observed the drilling activities, classified the on-Site soils in accordance with the Modified Burmister System, and screened for airborne VOCs using a PID. The soils were also visually assessed for evidence of contamination, and for the presence of chemical odors.

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The boreholes encountered groundwater at various elevations. The rig advanced the water table wells to final depths of approximately seven feet below the water table. Monitoring well MW-4A was screened from 25' to 35' bg, five feet below the bottom of MW-4.

The wells were constructed with ten feet of two-inch ID, 10-slot PVC screen up to 2 feet bgs, surrounded by #2 sand, above which were PVC risers and a bentonite plug. The wells were installed such that the screen crossed the water table during boring installation. The annular space between the screen and the native material was filled with sand pack. A one-foot thick layer of bentonite pellets was placed above the sand pack and the boring was sealed with cement bentonite grout extending to the ground surface. The wells were completed with a lockable well cap and a flush-mount steel traffic box set in a 2' by 2' concrete pad. Well construction logs are included in **Appendix F**.

After the wells were installed, they were developed using a submersible pump and dedicated polyethylene tubing to remove fine materials generated during well installation activities, until the groundwater was nearly free of turbidity. The development water did not have any odors, sheen, or elevated PID readings, and was stored on-site in 55-gallon drums.

Borbas Surveying & Mapping, LLC (Borbas) of Boonton, New Jersey, a New Jersey-licensed surveyor, surveyed the casing elevations and locations of the groundwater monitoring wells on January 7, 2010. Monitoring well construction logs (including soil logging results) and the surveyor's Form B's are provided in **Appendix F**.

5.2 GROUNDWATER SAMPLING AND ANALYSIS – DECEMBER 2009

On December 10 and 11, 2009, Test America, a New Jersey-certified laboratory (certification #12028) collected static groundwater level readings from each well. The samples were collected in general accordance with the procedures outlined in the most recent NJDEP Low-Flow Purging and Sampling Guidance document. The pump, depth-to-water meter, and sampling equipment that were introduced into the wells were decontaminated before and after each well was sampled. Once decontaminated, the pump and depth-to-water meter were lowered into the well so that the pump intake was at the depth noted in the applicable low-flow sampling data sheet, and the sample was collected from the saturated screen interval. Water quality parameters were measured using an Horiba U-22 flow-through cell.

There were no elevated PID readings when the wells were opened. Each well was purged at a rate between 200 and 500 milliliters per minute (ml/min). The water level and water quality parameters were measured every five minutes. Drawdown levels were kept to less than 0.3 feet throughout the purging and sampling procedure. Purging continued until the following

water quality parameters stabilized in three consecutive readings:

 ± 0.1 for pH

±3% for conductivity and temperature

±10 mv for redox potential

±10% for dissolved oxygen and turbidity



Once the measurements stabilized, TestAmerica collected groundwater samples at a pumping rate of 100 to 250 milliliters per minute (ml/min), while not exceeding a 0.3-foot drawdown. The groundwater samples were collected using a dedicated TeflonTM bailer. Groundwater samples were collected from top of the screen and bottom of the screen in each pre-existing monitoring well and from the deep monitoring well, as required by the Department. The goal of this sampling was to assess whether there is a vertical gradient in the groundwater at the monitoring well locations. The lower interval was five feet below the upper interval for this sampling event.

After removing the pump, disposable equipment was replaced for use at the next well. One field blank was collected per day of sampling. No pre-filtering was performed.

Well purge water produced during groundwater sampling activities was containerized in DOT-approved 55-gallon drums and stored on-Site.

Groundwater purging/sampling data sheets are provided in **Appendix G**. The table below summarizes groundwater quality at the time of sampling.

Well#	Date	Time	pН	Temp (oC)	Spec Cond	DO	Redox	Turbidity
MW-1	12/10/09	1420	5.87	14.2	312	2.40	439.8	19.3
MW-3	12/11/09	1410	6.63	9.5	694	3.29	385.2	78.0
MW-4	12/11/09	1245	6.81	14.9	996	0.86	237.0	30.9
MW-4A	12/11/09	1510	7.08	14.3	606	1.50	255.1	18.0
MW-5	12/10/09	1215	6.75	13.2	663	4.37	382.6	69.3
MW-6	12/11/09	1405	6.41	13.5	966	1.56	371.5	172
MW-7	12/10/09	1415	6.12	13.5	314	1.13	392.3	78.6
MW-8	12/10/09	1145	6.15	14.4	496	3.19	384.1	849
MW-9	12/11/09	1215	6.62	13.7	853	3.82	367.1	1084
MW-10	12/11/09	1120	6.40	13.6	748	5.20	344.6	2.3

During purging activities, high turbidity was recorded in monitoring wells MW-6, MW-8, and MW-9, although the field personnel did not report visually turbid samples from these wells. GZA did not note a correlation between turbidity and PCB concentrations.

After sampling, TestAmerica placed the groundwater samples in a cooler maintained at 4° Centigrade. The cooler was delivered by a TestAmerica sampling crew to their laboratory in Edison, New Jersey for analysis using chain-of-custody procedures. TestAmerica analyzed the groundwater samples for PCBs using USEPA Method 8082. The groundwater samples from monitoring wells MW-4 and MW-4A were also analyzed for BN+15 using USEPA

Method 8270 and VO+10 using USEPA Method 8260, as specified in the approved RIWP.

5.3 GROUNDWATER ANALYTICAL RESULTS – DECEMBER 2009

Figure 7 provides the groundwater contours generated during the December 2009 sampling event, and a summary of the PCB groundwater data from the event. Table 4 provides all of the groundwater data collected for this case to date, and compares the results to the Groundwater Quality Standards (GWQS) for each chemical. The GWQS for total PCBs is 0.5 micrograms per liter (µg/l). The Laboratory Data Packages and Quality Assurance/Quality Control documentation for the groundwater sampling are provided on the attached CD.



PCBs

No PCBs were detected above the Method Detection Limit (MDL) in both sampling depth intervals in monitoring wells MW-1, MW-3, and MW-5. PCBs were detected in monitoring wells MW-4 at concentrations of 190 µg/l (upper) and 260 µg/l (lower). PCBs were detected in monitoring well MW-4A at concentrations of 35 µg/l (upper) and 37 µg/l (lower). PCBs were detected in monitoring well MW-6 at concentrations of 13 µg/l (upper) and 14 µg/l (lower). PCBs were detected in monitoring well MW-7 at a concentration of 1.9 µg/l for both upper and lower sampling intervals. PCBs were detected in monitoring well MW-8 at concentrations of 1.5 µg/l (upper) and 1.4 µg/l (lower). PCBs were detected in monitoring well MW-9 at concentrations of 0.74 µg/l (qualified, upper) and 0.99 µg/l (lower). PCBs were detected in monitoring well MW-10 at a concentration of 5.6 µg/l. Only one groundwater sample was collected and analyzed from this well because there was insufficient water in the well to allow for dual sampling.

In summary, water table monitoring wells MW-4, MW-6, MW-7, MW-8, MW-9, and MW-10 contained PCBs at concentrations above the GWQS. No vertical gradient was detected within any of the well bores. A vertical gradient could be established using data from MW-4 and MW-4A, since MW-4A, whose upper sampling depth was seven feet lower than at the deeper sampling depth from MW-4, contained 80% less PCBs than MW-4.

VOCs

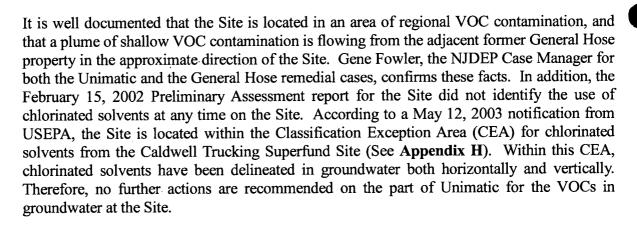
The groundwater sample collected from the upper interval of monitoring well MW-4 contained tetrachloroethene (PCE) at a concentration of 58 μ g/l, trichloroethene (TCE) at a concentration of 1,700 μ g/l, cis-1,2-Dichloroethene (DCE) at a concentration of 1,100 μ g/l, and vinyl chloride at a concentration of 33 μ g/l. MW-4 also contained 1,1,1-trichloroethane (TCA) at a concentration of 260 μ g/l, 1,1-dichloroethane at a concentration of 98 μ g/l, and 1,1-DCE at a concentration of 70 μ g/l. The concentrations detected in the lower interval from MW-4 were virtually identical to the concentrations detected from the upper interval.

The groundwater sample collected from the upper interval of monitoring well MW-4A contained PCE at a concentration of 110 μ g/l, TCE at a concentration of 2,000 μ g/l, cis-1,2-DCE at a concentration of 1,600 μ g/l, and vinyl chloride at a concentration of 88 μ g/l. MW-4A also contained TCA at a concentration of 920 μ g/l, 1,1-DCA at a concentration of 140 μ g/l, and 1,1-DCE at a concentration of 130 μ g/l.

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BNs

No BNs were detected above their respective MDLs in monitoring wells MW-4 and MW-4A in the groundwater samples collected at both the intervals, except for 1,2,4-trichlorobenzene and 2-methylphenol. Neither of these BNs was present at concentrations above their respective GWQS. No further BN analyses are warranted for the groundwater at the Site.

5.4 GROUNDWATER FLOW DIRECTION - DECEMBER 2009

The table below provides the calculations used to determine depth to water for this gauging event.

Monitoring Well #	MW-1	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
Well Depth	30.02	29.16'	23.72'	26.53	26.60'	16.81'	20.06	19.19'	18.03'
Top of PVC Elev.	99.88'	94.92'	95.08'	95.30'	93.28'	93.49'	92.93'	91.92'	93.38'
Depth to Water	20.21	15.28'	15.47'	15.66'	13.64'	7.27'	6.82'	11.27'	12.90'
Groundwater Elev.	79.67	79.64	79.61'	79.64	79.64	86.22'	86.11	80.65	80.48'

GZA prepared a groundwater elevation contour map using these data and the survey data (see **Figure 7**). The contour map indicates that there is a steep south-southwest groundwater gradient in the northwest portion of the Site. This groundwater flow direction is counter to the regional flow direction, and to the flow direction measured on Site prior to the installation of the monitoring wells whose installation is documented in this report. This new information was verified in a subsequent gauging round. The reason for this groundwater flow direction is unknown, although it may be caused by groundwater mounding along the JCMUA pipeline.

GZA initially speculated that these higher water elevations were the result of mounding due to leakage from the JCMUA water pipelines. To test that theory, GZA analyzed the groundwater from monitoring wells MW-7 and MW-8 for the presence of chlorine. According to JCMUA, the presence of chlorine would identify the water as coming from the JCMUA pipeline. No chlorine was detected in either of the groundwater samples, leaving the issue of the high water table along the northern property boundary unresolved.

5.5 MONITORING WELL INSTALLATION AND DEVELOPMENT – SPRING 2010

Because the calculated southerly groundwater flow direction seemed to be related to a possible leak in the JCMUA water pipe, GZA wasn't sure whether this flow direction had always been as measured. If the flow direction had originally been to the north, then PCBs could have migrated north, beyond the JCMUA property. To assess groundwater conditions north of the JCMUA property, GZA installed two water table monitoring wells at 6 Kingsbridge Road, the property north of the JCMUA property, at locations approved on March 2, 2010 by Mr. Gene Fowler, Department Case Manager.



On March 25, 2010, GZA and Hawk mobilized to 6 Kingsbridge Road to install the two new water table monitoring wells, known as MW-KB-1 and MW-KB-2. The wells were installed and developed using the procedures described in Section 5.1 of this report. Groundwater was encountered at between 3.7' and 4' below grade in these wells.

On March 31 and April 1, 2010, monitoring well MW-4B was installed next to MW-4 and MW-4A. The objective of MW-4B was to provide vertical delineation of the PCBs detected in MW-4A. A water-bearing fracture at the top of the bedrock was encountered between 38' bg and 43' bg. Steel surface casing was set from the surface to 45' bg on the first day of drilling. Hawk drilled out the casing on April 1, and drilled through basalt bedrock until a second water-bearing fracture was encountered between 55' and 60' bg. The well was set with a five-foot long screen over that interval.

On May 17, 2010, Borbas surveyed the casing elevations and locations of the new monitoring wells. Monitoring well construction logs (including soil logging results) and the surveyor's Form B's are provided in **Appendix F**.

5.6 GROUNDWATER SAMPLING, ANALYSIS, AND RESULTS – APRIL 2010

On April 19, 2010, APL sampled the new monitoring wells. Prior to sampling, all project monitoring wells were gauged. The well sampling and the sample handling and storage procedures were as described in Section 5.2 of this report. The well purge data sheets are provided in **Appendix H**. The analytical results are summarized in **Table 4**. The table below summarizes groundwater quality at the time of sampling.

Well #	Time	pН	Temp (oC)	Spec Cond	DO	Redox	Turbidity
MW-KB-1	1120	6.82	11.49	1.07	3.31	428	551
MW-KB-2	1235	6.91	11.50	3.37	6.85	442	921
MW-4B	1355	7.51	11.11	0.676	0.00	333	780

Despite the high turbidity in the samples collected, no detectable concentrations of PCBs were present in the groundwater samples from monitoring wells MW-KB-1 and MW-KB-2, completing the horizontal delineation of PCBs to the north. The sample collected from monitoring well MW-4B, which also exhibited high turbidity, contained total PCBs at a concentration of 1.08 μ g/l. Although this detection exceeds the GWQS of 0.5 μ g/l, GZA hereby applies for a variance from Section 7:26E-4.1 of the TRSR for reasons provided in Section 5.7 of this report.

The table below provides the calculations used to determine depth to water for this gauging event. **Figure 8** provides the groundwater contours generated during the April 2010 sampling event, and a summary of the PCB groundwater data from the event.

Monitoring Well #	MW-1	MW-3	MW-4	MW-5	MW-6	MW-7
Well Depth	30.02'	29.16'	23.72'	26.53'	26.60'	16.81'
Top of PVC Elev.	99.88'	94.92'	95.08'	95.30'	93.28'	93.49'
Depth to Water	18.87'	14.07'	14.15'	14.45'	12.42'	8.77'
Groundwater Elev.	81.01'	80.85'	80.93	80.85	80.86	84.72'
Monitoring Well #	MW-8	MW-9	MW-10	MW-KB-1	MW-KB-2	
Well Depth	20.06'	19.19'	18.03'	12.00	12.00	
Top of PVC Elev.	92.93'	91.92'	93.38'	85.64	85.92	
Depth to Water	7.50'	10.96'	11.67'	4.00'	3.73'	
Groundwater Elev.	85.43'	80.96'	81.71'	81.64'	82.19'	



The southerly groundwater flow direction calculated in the December 2009 gauging event was confirmed in the April 2010 gauging event. However, in April 2010, the water table in MW-KB-1 and MW-KB-2 was more than three feet lower than the water table in the three monitoring wells along the northern property boundary. Therefore, these two off-site wells provide downgradient delineation of the PCBs detected in on-Site monitoring wells MW-7, MW-8, and MW-9.

5.7 APPLICATION FOR VARIANCE FOR GROUNDWATER DELINEATION

GZA hereby requests a variance from the requirement for vertical delineation of PCBs in groundwater detected in monitoring well MW-4B. The rationale for the variance request from the requirements of Section 7:26E-4.1 is as follows:

- The groundwater results for PCBs in the MW-4 cluster show a pronounced decrease with depth, from a maximum concentration of 260 µg/l at 21.7' bg, to 37 µg/l at 33.7' bg, to 1.08 µg/l at 53' bg.
- The deepest well in the cluster, MW-4B, is set in a fracture with gravel in-fill within the trap rock basalt.
- This trap rock is a poor water producer, with most water production coming from the bedrock fractures¹.
- There is a Classification Exception Area (CEA) established at this location from the Caldwell Trucking Superfund Site, and a second CEA will be established for PCBs at this location. As such, human health and the environment will be protected without additional vertical delineation of PCBs at this or other locations at the Site.
- The work already conducted has achieved the objectives of delineation as called for under Section 7:26-4.1, and will achieve the goal of complete groundwater delineation.

In addition, GZA hereby requests a variance from the requirement for horizontal and vertical

¹ Permeable Reactive Barriers Action Team for the Caldwell Trucking Superfund Site (ref: http://www.rtdf.org/public/permbarr/prbsumms/profile.cfm?mid=10)

delineation of VOCs in groundwater detected in monitoring well MW-4. The rationale for the variance request from the requirements of Section 7:26E-4.1 is as follows:

- It is well documented that the Site is located in an area of regional VOC contamination, and that a plume of shallow VOC contamination is flowing from the adjacent former General Hose property in the approximate direction of the Site. Gene Fowler, the NJDEP Case Manager for both the Unimatic and the General Hose remedial cases, confirms these facts.
- The February 15, 2002 Preliminary Assessment report for the Site did not identify the use of chlorinated solvents at any time on the Site.
- The work already conducted has achieved the objectives of delineation as called for under Section 7:26-4.1, and will achieve the goal of a complete groundwater delineation.

6.0 REMEDIAL ACTION WORK PLAN/RISK-BASED REMEDIATION PLAN

The following Sections describe the proposed remedial actions for the impacted soils and groundwater at the Site. The USEPA also requires remediation of PCBs in and on the interior surfaces of the Site building, pursuant to the requirements of the Federal Toxic Substances Control Act and 40 CFR Part 761. The remediation plan for that work is still in preparation, and will be submitted at a later date.

6.1 BASIS OF PROPOSED SOILS REMEDIATION

Because PCBs are specifically regulated under the federal Toxic Substances Control Act (TSCA), there is dual jurisdiction over PCB cleanups by the USEPA and the NJDEP. Accordingly, PCB cleanup levels in New Jersey are established with reference to USEPA regulations at 40 CFR Part 761, as well. Those regulations base the appropriate PCB cleanup level in soil on the age of the PCB spill, the current and future use of the property, and the institutional and engineering controls that will be placed on the property. Section 761.61 provides cleanup and disposal options for "PCB remediation wastes," which are wastes containing PCBs from a spill, release, or other unauthorized disposal that occurred prior to April 18, 1978. In addition, the USEPA regulatory program allows the establishment of site-specific, risk-based remediation standards to be used, if demonstrated to be justified through a risk-based assessment.

As documented in GZA's PA report, Unimatic began to utilize floor trenches and the northern wastewater discharge pipe to dispose of its production wastewater in 1970. Unbeknownst to those operating the Unimatic facility, this wastewater carried PCB-laden lubricants and possibly PCB-laden hydraulic oils used in the die casting process. The discharge pipe leaked, releasing PCBs to the subsurface. There is also evidence of significant historical surface spillage. PCB production was phased out in the United States prior to the production ban date of July 1, 1979 established under TSCA. We believe that PCB use ceased at the Unimatic facility when PCBs were no longer being added to petroleum products, which was probably soon after April 18, 1978, when PCB-containing products were no longer available for purchase.

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Because of the time period when PCB releases occurred at the Unimatic Site, the PCB-contaminated soils are classified as PCB remediation waste. Pursuant to 40 CFR §761.50(b)(3), the cleanup and disposal of PCB remediation waste is regulated under 40 CFR 761.61.

6.1.1 Risk Assessment for PCBs



Appendix I of this report contains a report prepared by GZA, entitled "Human Health Risk Assessment – Hazard Identification and Toxicity Assessment – Former Unimatic Mfg. Co. Facility." This Risk Assessment Report was prepared in accordance with the USEPA Risk Assessment Guidance for Superfund (RAGS). The Assessment was designed to evaluate the potential health effects associated with the Site-related chemicals, and provide quantitative toxicity estimates that would provide an acceptable human health risk for each exposure scenario at the Site. The finalized report was the culmination of months of technical exchanges between USEPA and GZA.

The Risk Assessment Report establishes the following regarding risks posed to human health by the PCBs:



- PCB-contaminated soils more than two feet below ground surface do not pose a risk to human health, meaning these soils can be left in place as per 40 CFR 761.61;
 - PCB-contaminated soils less than two feet below ground surface but beneath the building footprint do not pose an unacceptable risk to human health;
- Soils less than two feet below the ground surface on the exterior portions of the property with total PCB concentrations less than 43 mg/kg pose no significant current risk to human health;
 - Exterior soils within two feet of the ground surface that contain total PCBs at a concentration greater than 43 mg/kg pose an unacceptable risk to child trespassers, facility workers and hypothetical residential receptors given current Site conditions.

To address the risks posed by the soils described in the final bulleted item above, GZA proposes the construction of an impermeable engineered cap, and the implementation a deed notice and a groundwater Classification Exception Area (CEA). The details of the proposed deed notice and engineering controls are contained in Section 6.3 of this report, below. With the engineered cap and deed restriction in place, Site soil will not be accessible by any future receptors, which therefore will be protective of human health. As the exposure pathways to Site contaminants are not complete for future receptors such as construction workers, landscapers, facility workers, and Site visitors with the deed notice, engineering controls, and CEA in place, the Report concludes that the Site would pose no significant risks to future receptors.

Based upon its review of the analysis and conclusions contained in the Report, USEPA, through a December 22, 2010 e-mail from James S. Haklar, Sr., PCB Disposal Specialist, stated that "we have no further questions or comments with the risk assessment for this site.

We await your submittal of a formal application for a risk-based disposal approval" (See Appendix J). The risk-based disposal approval is contained herein.

6.1.2 Application for Variance for PCB Remediation

GZA hereby requests a variance from the requirement for remediation of PCBs in soils at concentrations greater than the Impact to Ground Water Soil Remediation Standard of 50 mg/kg. The rationale for the variance request from the requirements of Section 7:26E-6.1(b)(2) is as follows:

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GZA's risk assessment demonstrates that, with the exception of surface soils (top two feet) containing PCBs at concentrations greater than 43 mg/kg outside the building footprint, exposure pathways are incomplete at the Site, given current site conditions. Furthermore, the risk assessment demonstrates that the proposed remedy of a CEA, a deed notice, and engineering controls will render incomplete the current exposure pathways for the top two feet of soils containing PCBs at concentrations greater than 43 mg/kg outside the building footprint. Consequently, the Site will pose no significant risks to future receptors once these above-listed remedial steps are completed, the objectives of Section 7:26E-6.1 (b) (2) will be achieved, and the attainment of the goals of that Section will be furthered.

6.1.3 Off-Site Remediation of PCBs

Soils on the adjoining 21 Sherwood Lane property that contain total PCBs at concentrations exceeding their RDCSCS of 0.2 mg/kg will be excavated and sent off-site for disposal. Soils on the adjoining JCMUA property that contain total PCBs at concentrations exceeding their RDCSCS of 0.2 mg/kg will be subject to a Deed Notice (see Section 6.3.2 of this report).

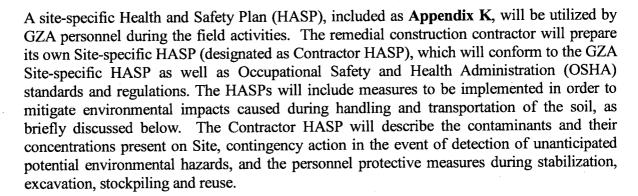
6.2 PROPOSED ACTIVE SOILS REMEDIATION

The following section describes the proposed active remediation of soils. Figure 9 shows the approximate location of the soils that are subject to active remediation.

6.2.1 Soils Excavation – General Procedures

A licensed contractor will perform the soil excavation and loading activities. The soils will be live loaded to the extent feasible. Some circumstances may require the excavated soils to be staged on-Site prior to disposal. The soils will be transported to licensed receiving facilities in accordance with applicable state and federal regulations following proper characterization and disposition. All personal protective equipment and disposable material or equipment will be collected, double bagged and disposed off-site. A GZA representative will be present on Site to sign the manifests as agent for Unimatic.

GZA will screen the excavated soils for airborne organic vapors using a PID by holding the PID probe directly over the soil immediately after excavation. GZA will note visual and olfactory evidence of impact, if present. In addition, GZA will utilize a DataRAM dust monitor to screen for airborne dust particles, which will act as a surrogate for the presence of airborne PCBs. The excavation areas will be fenced off at the end of each work day for safety purposes.



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Post-excavation soil samples will be collected at a frequency described in Sections 6.2.2 and 6.2.3 of this report.

GZA will collect a field blank to confirm that the field equipment does not contain targeted compounds that could cross-contaminate the samples. Post-excavation soil samples will be placed in laboratory-prepared glassware and stored in a cooler maintained at 4° Centigrade. GZA will deliver the samples to a New Jersey-certified laboratory along with quality control samples using chain-of-custody procedures. The laboratory will analyze the samples and the field blanks for PCBs using USEPA Method 8082.

Upon receipt of acceptable post-excavation analytical results_from the certified laboratory, the excavated areas will be backfilled with certified clean fill and rough graded.

6.2.2 21 Sherwood Lane Soils Excavation

Soils on 21 Sherwood Lane that contain PCBs at concentrations greater than 0.2 mg/kg will be excavated and replaced with certified clean fill. Soils in the vicinity of boreholes 21-1, 21-8, and 21-11, where contamination was detected at 3' depth, will be excavated to a depth of 3' to 4' bg. Elsewhere on this property, soils will be excavated to a depth of 1' to 2' bg. Shallow soils will be over-excavated in the areas around the soil samples where horizontal delineation was not completed: 21-15, 21-24, 21-26, 21-27, and 21-29. GZA will collect post-excavation soil samples every 900 square feet along the bottom of the excavation and every 30 linear feet along the sidewalls. At a minimum, post-excavation soil samples will be collected at the following locations where vertical delineation was not completed in the course of the RI: boreholes 21-20, 21-24, 21-26, 21-27, and 21-29. Utilization of a field test kit is not feasible on this property because the desired objective of 0.2 mg/kg is not achievable with a commercially-available field screening device.

6.2.3 Environmental and Site Controls

Environmental Site controls that comply with applicable local and state regulations governing remedial activities will be implemented at the Site before, during, and following remedial actions. Environmental controls include dust and odor control and erosion and sediment control, which will be installed and maintained in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey. The Site controls include fencing, traffic

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controls and equipment decontamination. A discussion of each is presented below.

• <u>Dust Control</u>: Dust may be generated during implementation of the remedial activities. If dust is deemed a problem at the Site, engineering controls may be instituted in accordance with Section 16, "Dust Control," New Jersey Standards for Soil Erosion and Sediment Control, July 1999. Water, material covers, and windbreaks would be used to control dust and odors. Water will be sprayed, as necessary, across the Site during construction to prevent dust from becoming airborne. The contractor will use wet methods to remove dust from vehicles before leaving the Site and to suppress dust generation in general.

GZA may implement other technologies including chemical stabilization, foams, or adhesives, or by placing stone or vegetation, if necessary. If engineering or process controls fail to suppress dust or odors, the resident engineer shall stop work and discuss the situation with the project manager. New dust or odor controls will be put into place prior to resuming construction activities.

• Air Monitoring: During soil disturbance activities, continuous dust monitoring will be conducted for health and safety purposes using portable direct readings from an on-Site particulate matter (dust) monitor (Mini-Ram or equivalent) and a PID. The monitors will be placed upwind and downwind of the intrusive work to monitor particulate matter on-Site. If conditions warrant, GZA will inspect off-property areas to observe dust and air conditions at the end of each day. Short-term and long-term air quality action levels are identified in the Site-specific HASP. In the event that any action levels are exceeded, GZA shall implement engineering or process controls to control dust or odors emanating from the Site.

Air monitoring equipment will be calibrated at the start of each day and maintained in accordance with the manufacturer's requirements. The GZA field supervisor will record field observations, including weather conditions and real time instrument readings in a field log book.

- Equipment Decontamination: Construction equipment leaving exclusion zones or work areas will be cleaned and/or decontaminated in designated area as required to prevent cross contamination or tracking of soil. In accordance with Section 29 of New Jersey Standards for Soil Erosion and Sediment Control, July 1999, "Stabilized Construction Access," truck tire washing stations will be constructed and maintained at exits to public roadways where soils may be tracked or flow off the construction Site.
- <u>Existing Drainage Features</u>: Stormwater is expected to infiltrate the ground and there are no existing drainage features that will affect the remediation actions.
- <u>Silt Fence and Hay Bales</u>: Silt fences and hay bales will be installed along the areas to be disturbed as needed to trap loose sediment. They will be installed on the downslope side (if required) to divert run-off on the up-slope side of the work area, around

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and down-slope of soil stockpiles, and in other areas disturbed by construction activities. They will be in place prior to beginning remediation activities.

- Removal of Loose Soils: Soils could fall from the hauling vehicles onto the roads while being transported to and from the Site. If this happens, a crew will be sent to remove the loose soil before it spreads. The crew will determine the source of fallen soil (i.e. backfill material or excavation material, and clean it up. If necessary, modifications will be made to this procedure to minimize the potential of the additional incidents.
- Severe Weather: Short-duration, high-intensity rain showers may create unexpected erosion and drainage problems such as soil and containment berm erosion and ponding of water. Immediately after such events, containment berms will be inspected for structural and practical integrity. Also, spillage or leakage will be immediately corrected. Repair to these containment devices will be made as soon as possible. Damage/repairs will be logged in the resident engineer's daily report. Care will be taken so as not to discharge sediment or suspended particles where they may be redeposited elsewhere. GZA will maintain the erosion and sediment controls and will conduct as Site assessments after severe weather.

6.2.4 Permitting

In accordance with N.J.A.C. 7:26E-7.1, the following Federal, State, and local permits, permit modifications and certifications have been identified to implement the remedial action. Prior to the start of remedial action activities at the project Site, applicable permits will be obtained. The potential permits are discussed below.

Town of Fairfield: We don't anticipate the need for any permits from the Town of Fairfield.

Regional/County: We don't anticipate the need for any permits from Essex County.

State of New Jersey: Various State permits for this project will be obtained through Permit-By-Rule once this RAWP has been approved by the Department. A Remedial Action Permit pursuant to NJAC 7:26C, Subchapter 7 will be obtained once the approved Deed Notices (see below) have been filed with local authorities.

6.3 PROPOSED DEED NOTICE AND ENGINEERING CONTROLS

6.3.1 Deed Notice on Subject Property

Once active remediation is completed, the entire Site will be placed under a Deed Notice. The draft Deed Notice is included herein as **Appendix L**. This appendix also includes the property owner's written assent to the establishment of the Deed Notice.

Figure 10 shows the areas that will require institutional and engineering controls. No soil samples collected in the southern portion of the Site contained PCBs at concentrations above their NRDCSCS of 1.0 mg/kg. However, two soil samples in this area contained PCBs at concentrations above their RDCSCS. Since the NRDCSCS was not exceeded, and the Site is

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currently used for non-residential purposes, placing an institutional control over this area is sufficient to be protective of human health and the environment. Periodic monitoring of the restricted area will be conducted in the manner described on the draft Deed Notice.

6.3.2 Engineering Controls on the Subject Property

On the remainder of the Site not already covered by the building, an impermeable engineered cap will be constructed to prevent the migration of PCBs outside of the area and prevent or minimize human exposure, infiltration of water, and erosion. The cap will constitute a uniform placement of a minimum six-inch asphalt surface that will have sufficient strength to maintain its effectiveness and integrity when exposed to the environment. The cap will comply with the permeability, sieve, liquid limit, and plasticity index parameters described in 40 CFR 761.75(b)(1)(ii) through (b)(1)(v).

A New Jersey-licensed professional engineer will inspect the engineering controls on the Site as required by the TRSR. The controls will be repaired or replaced as necessary soon after the inspection. After completing the inspection, the engineer will certify to the NJDEP that the remedial action remains protective of the public health and safety and of the environment.

6.3.3 Deed Notice on JCMUA Property

The northeast portion of the adjoining JCMUA property that has been impacted by PCBs will be placed under a Deed Notice (see **Figure 10**). The upper eight feet of soils in this area have not been impacted by PCBs, and act as a barrier to prevent direct contact with the PCB-contaminated soils. The draft Deed Notice is included herein as **Appendix M**. The property owner's written assent to the establishment of the Deed Notice will be forwarded to the Department under separate cover. Periodic monitoring of the restricted area will be conducted in the manner described on the draft Deed Notice.

6.4 PROPOSED CLASSIFICATION EXCEPTION AREA

GZA does not propose active remediation of the PCB-contaminated groundwater at the Site, since it is virtually impossible for active remediation to remediate the groundwater to the PCB GWQS. Instead, GZA proposes the establishment of a CEA for PCBs in groundwater at the Site.

Given the complexity of the groundwater flow regime at the Site, GZA took a common-sense approach to defining the CEA boundaries (see **Figure 11**). To the south, the proposed CEA is bounded by monitoring wells MW-1, MW-3, and MW-5, all of which had no detectable concentrations of PCBs. To the east, the property boundary is used as the CEA boundary. This is justified because of the unusually high water table encountered during soil sampling conducted on that property. A steep southern groundwater gradient along the northern property boundary prevents PCBs from migrating off-site to the north, so the northern property boundary is used as the CEA boundary. The western property boundary is used as the CEA boundary because of the lack of PCBs in MW-5 and the low concentrations of PCBs in MW-7.

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A groundwater sample collected from onsite water table monitoring well MW-4 contained PCBs at a concentration of 260 ug/l, the highest detection of PCBs in groundwater at the Site in the last sampling round. This concentration is the design basis for the CEA.

PCBs sorb tightly to soil, and are highly insoluble in water in the absence of a cosolvent. They do not readily partition into gaseous phase, and will remain in place in the environment for a prolonged period of time. The Site soils are very silty. For the purpose of establishing a Site CEA, GZA assumes that the PCBs are immobile at the Site. The northern portion of the Site has a relatively steep hydraulic gradient; however, the table below provides the hydraulic gradient on the majority of the Site, where the majority of the PCBs in groundwater are located.



The following data apply to the proposed CEA:

Compounds of Concern: Total PCBs Initial Concentration: 260 ug/l

GWQS: 0.5 ug/l

Mean $\log K_{ow}^2$ 6.11

Henry's Constant¹ 3.5 x 10⁻³ Hydraulic gradient 0.000625 ft/ft

Length of the CEA: 350 feet

Half-life: Undetermined; persistent chemical

GZA is not aware of any published biodegradation factors for Aroclor 1242 or Aroclor 1248, the two congeners present in the Site groundwater. As such, GZA proposes to establish a planning horizon of indeterminate length for the CEA. No groundwater monitoring is proposed for the PCBs at the Site. A CEA Fact Sheet is provided in **Appendix N**.

6.5 REMEDIAL ACTION REPORT



A Remedial Action Report (RAR) that will conform to N.J.A.C. 7:26E-6.7 and to 40 CFR Part 761 will be submitted to the Department and to USEPA following the completion of remedial activities. The RAR will include the following elements:

- A summary of Site history, description of the physical setting of the Site, and summary, by area of concern, of the contaminants and applicable remediation standards;
- A summary, by area of concern, of each remedial action implemented, and list of remediation standards achieved;
- As-built drawings for all permanent remedial structures, including the containment trench, final cap system and stormwater control structures;
- A detailed description of the Site restoration conducted;
- A report of remedial action costs, including cost estimates to monitor, maintain, and certify each engineering and/or institutional control;

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² Reference: Watts, Richard J. Hazardous Wastes: Sources, Pathways, Receptors. John Wiley & Sons, Inc., 1998.

- Tables and figures containing pre- and post-remedial data;
- Manifests documenting off-site transport of waste materials;
- A copy of the final Deed Notice; and
- A copy of the Classification Exception Area.

6.6 COSTS TO DATE AND ANTICIPATED FUTURE COSTS

To date, GZA has spent \$1,954,175 on project investigation and remediation costs. GZA estimates that it will cost \$280,000 to implement this RAWP. A cost breakdown by activity is as follows:

Category	Expended to Date	Future Estimated Costs
PA/SI/due diligence	\$21,066	\$0
AST/UST Closure	\$33,212	\$0
Production Well Closure	\$6,300	\$ 0
Soil and Groundwater Investigation	\$423,395	\$0
Indoor PCB Investigation/Remediation	n \$52,086	To be determined
Soils and Groundwater Remediation	\$1,105,413	\$255,000
Report Preparation/Project Mgmt.	\$312,703 ~	\$35,000
TOTALS	\$1,954,175	\$280,000

6.7 REMEDIAL ACTION SCHEDULE

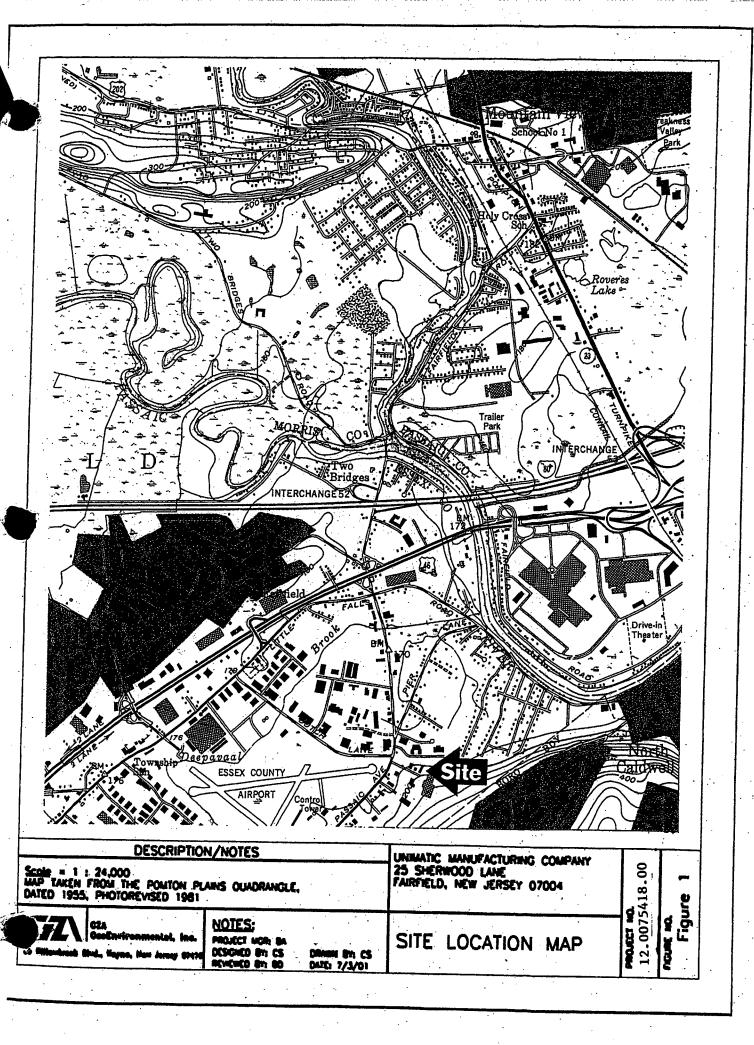
GZA currently anticipates that Site work will commence within 90 days of the filing of this document, pending approval of all permits and approval of the United States Environmental Protection Agency. The remediation of the soils on 21 Sherwood will take one to two weeks to complete. Paving of the impacted exterior portions of the Site will be performed within two to four weeks of completion of the soil remediation on 21 Sherwood. We will file the requisite forms to establish the institutional controls (Deed Notice and Classification Exception Area) with the various regulatory agencies soon afterwards. Once filed, GZA will submit Remedial Action Permit Applications for Soil and Groundwater to the Department. The Remedial Action Report will be submitted to the NJDEP no more than 28 days after receipt of final analytical report and HAZSITE diskettes from the laboratory.

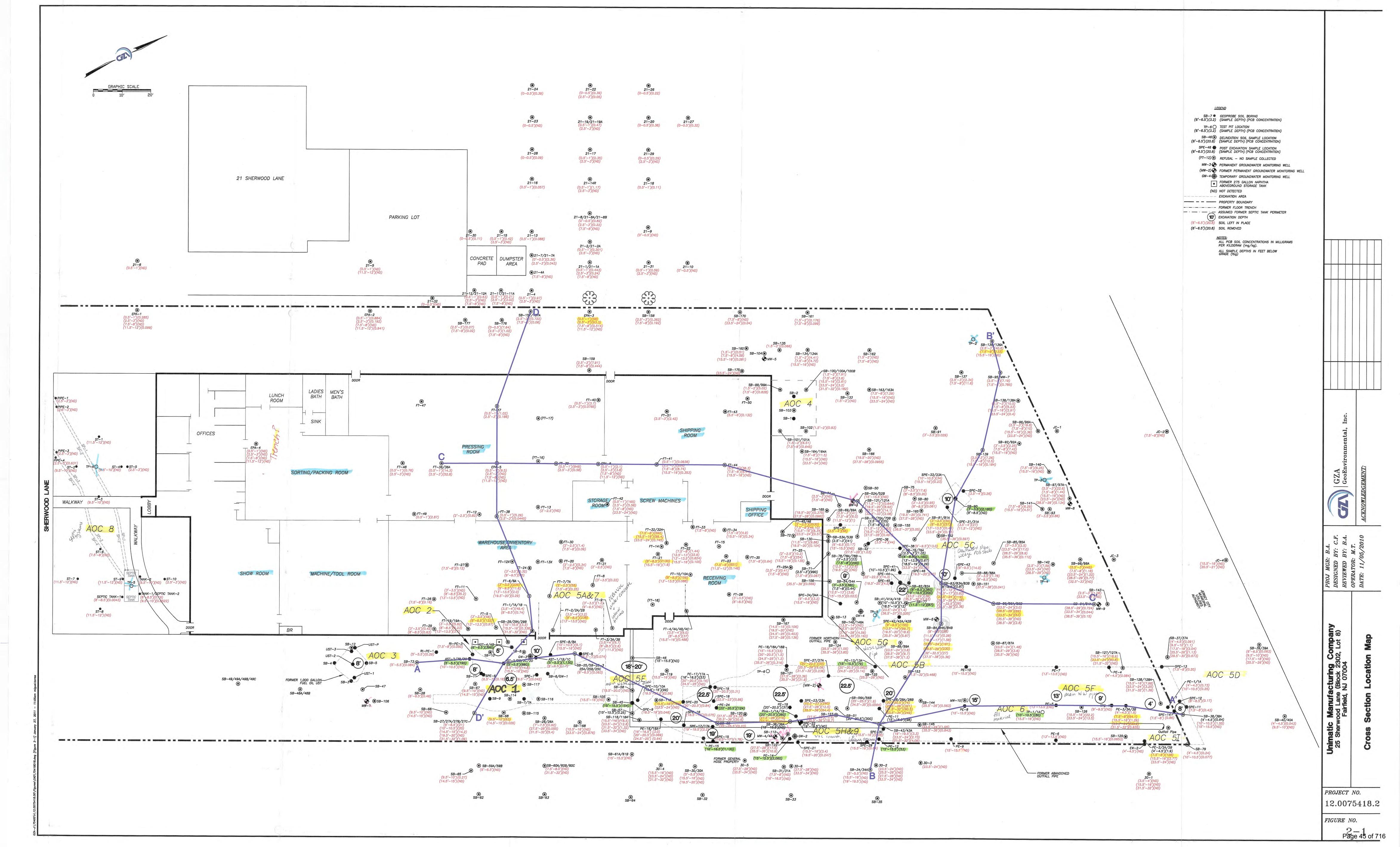
Biennial inspections will be performed in 2013, 2015, 2017, and every two years thereafter. Biennial certification reports will be filed with the Department after performance of the inspections.

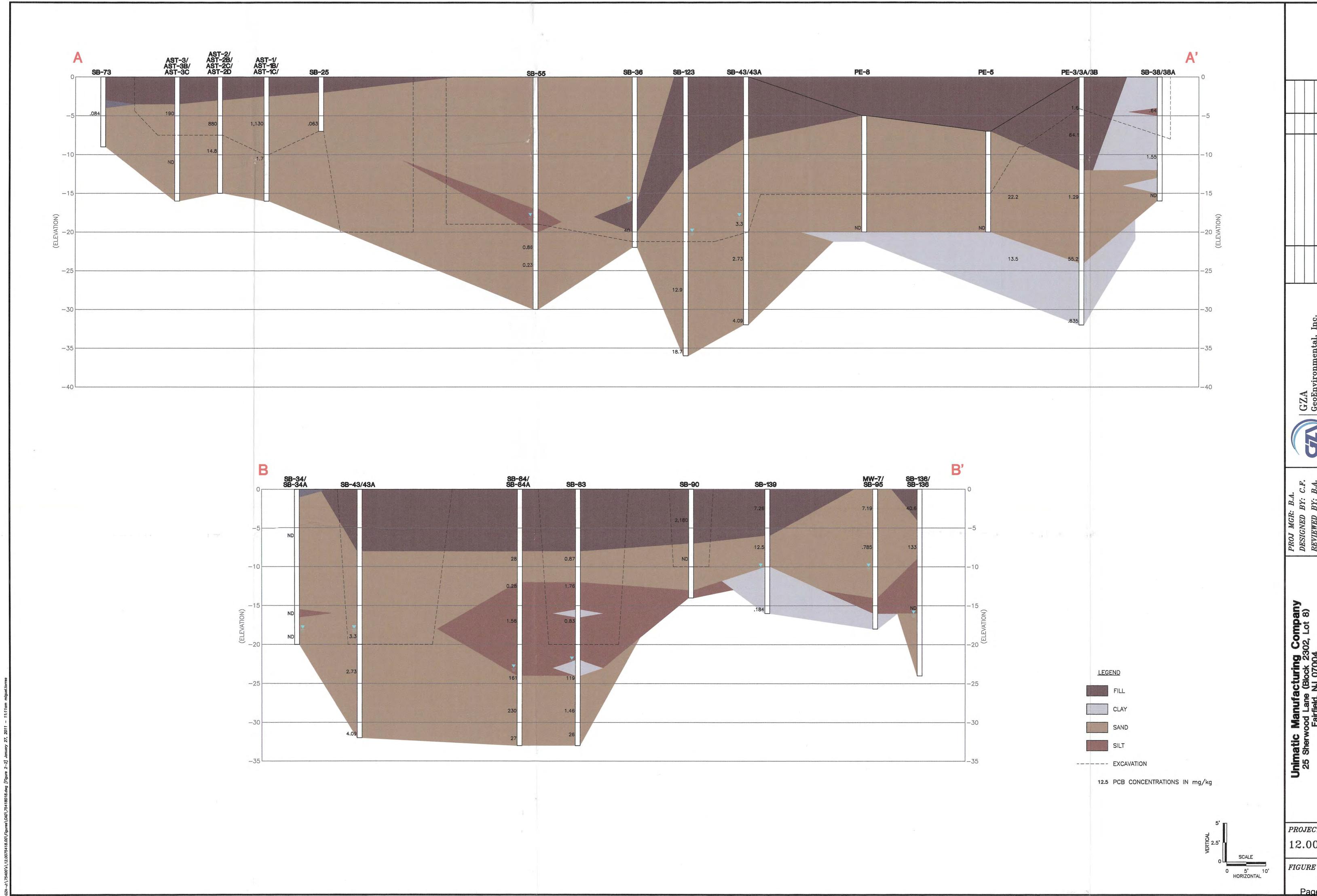






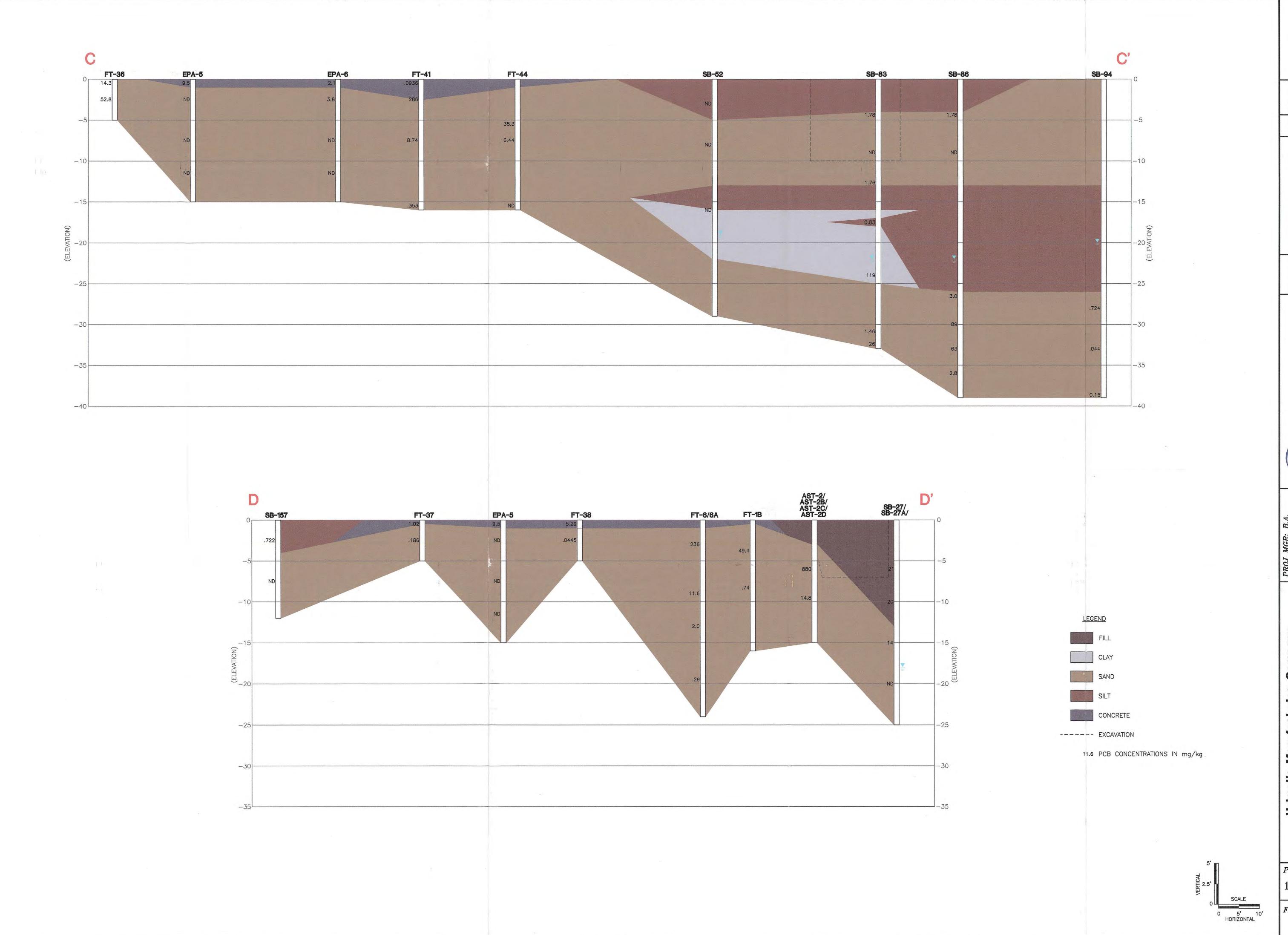






PROJECT NO. 12.0075418

FIGURE NO.

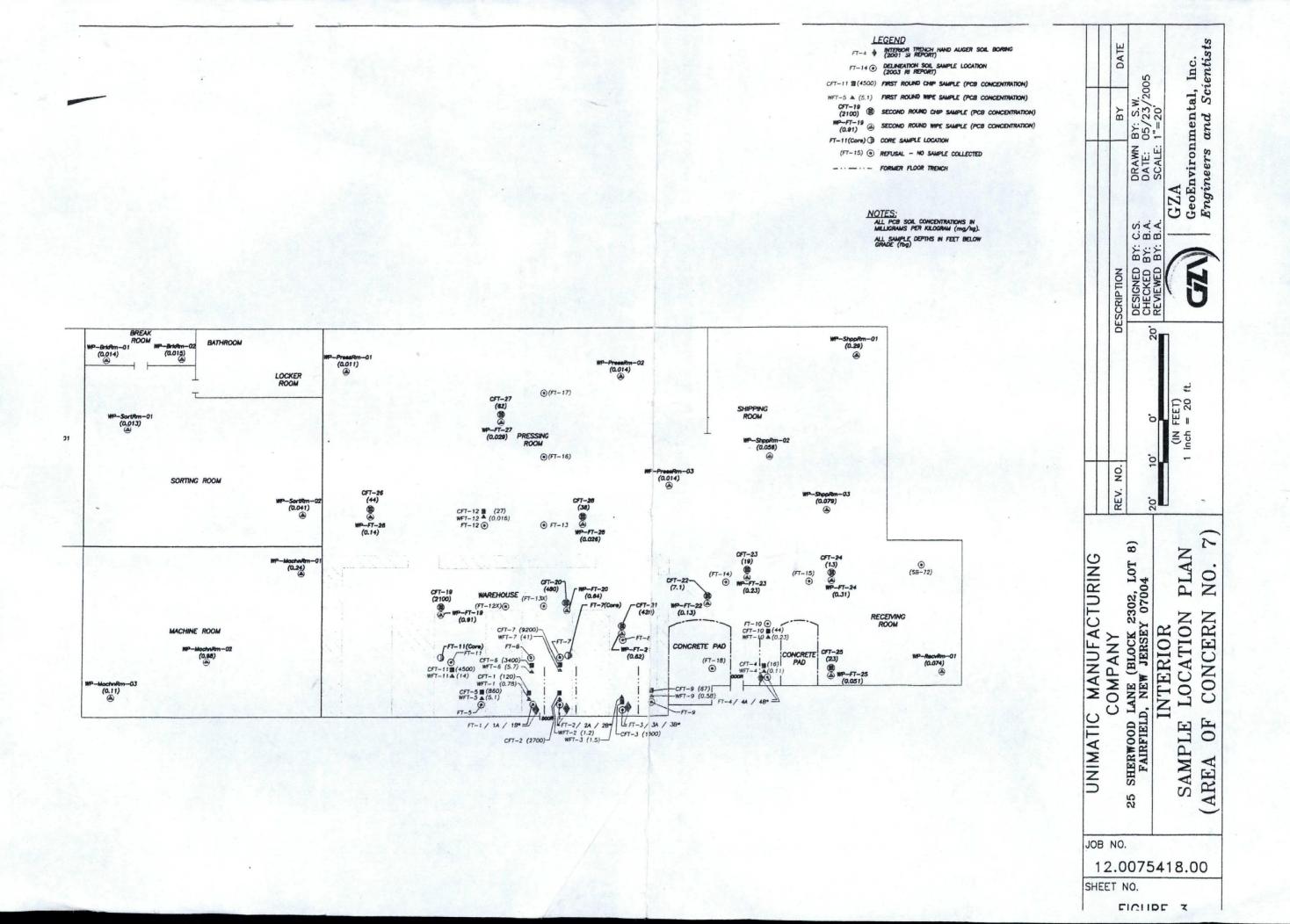


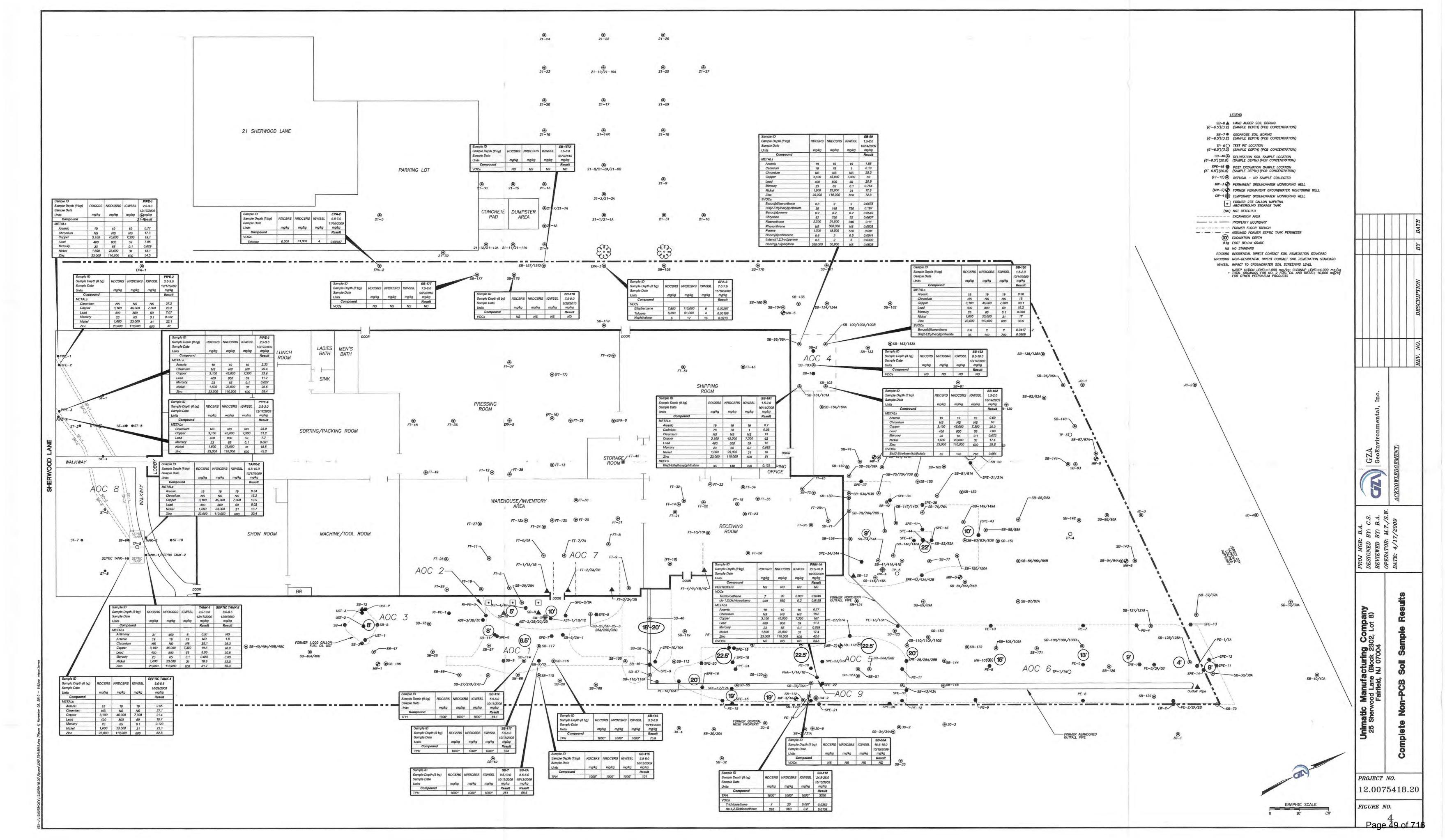
Unimatic Manufacturing Company 25 Sherwood Lane (Block 2302, Lot 8) Fairfield, NJ 07004

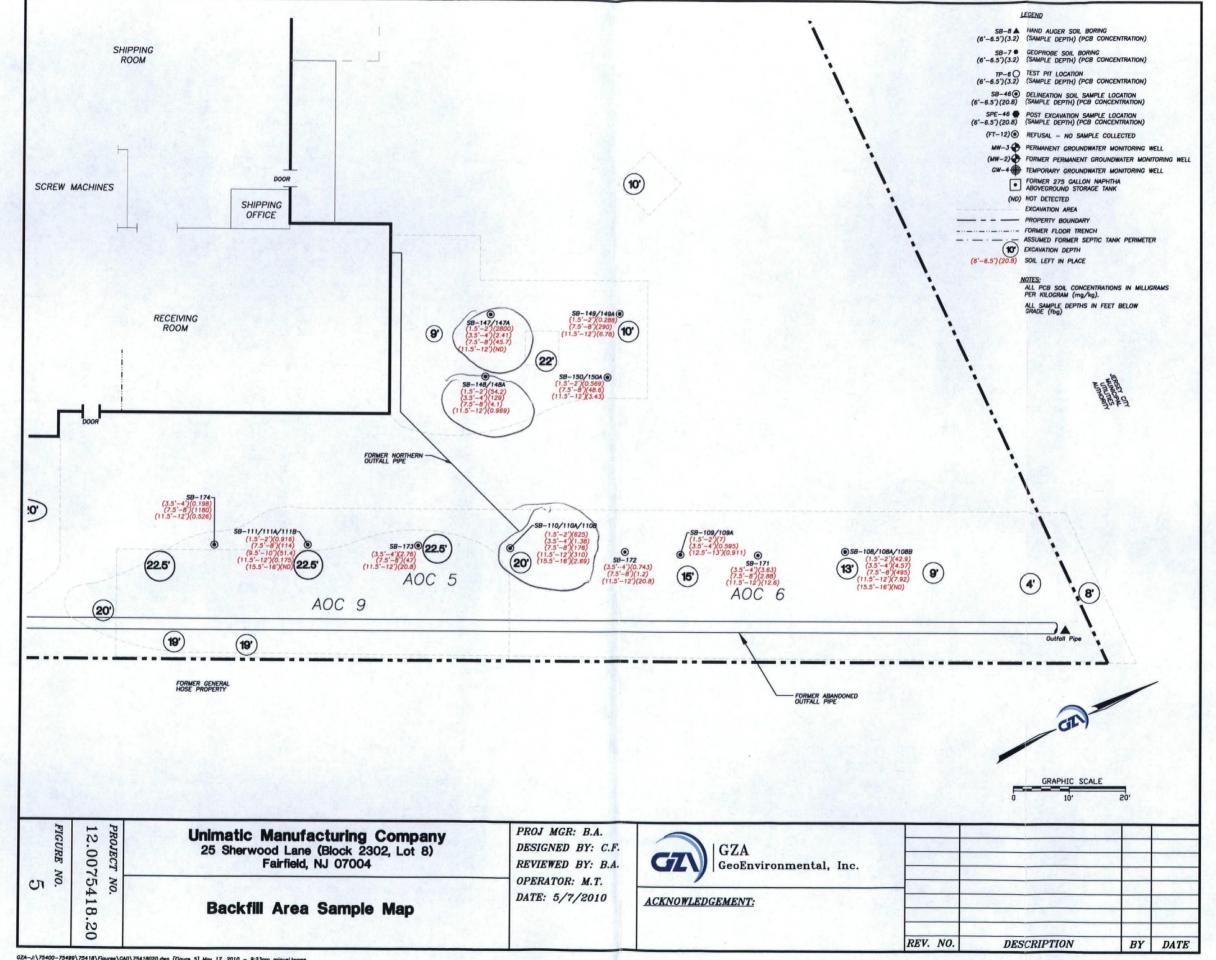
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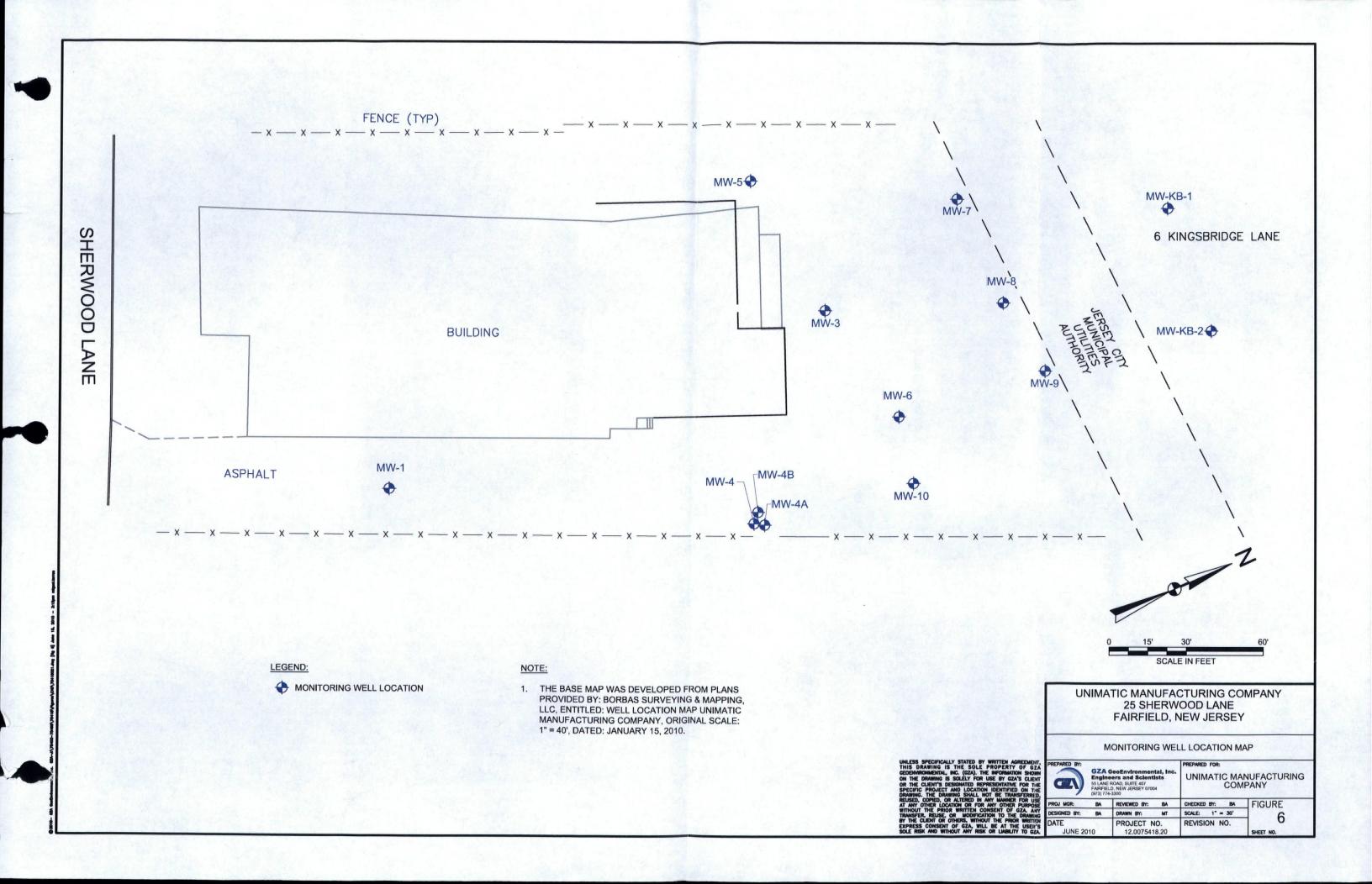
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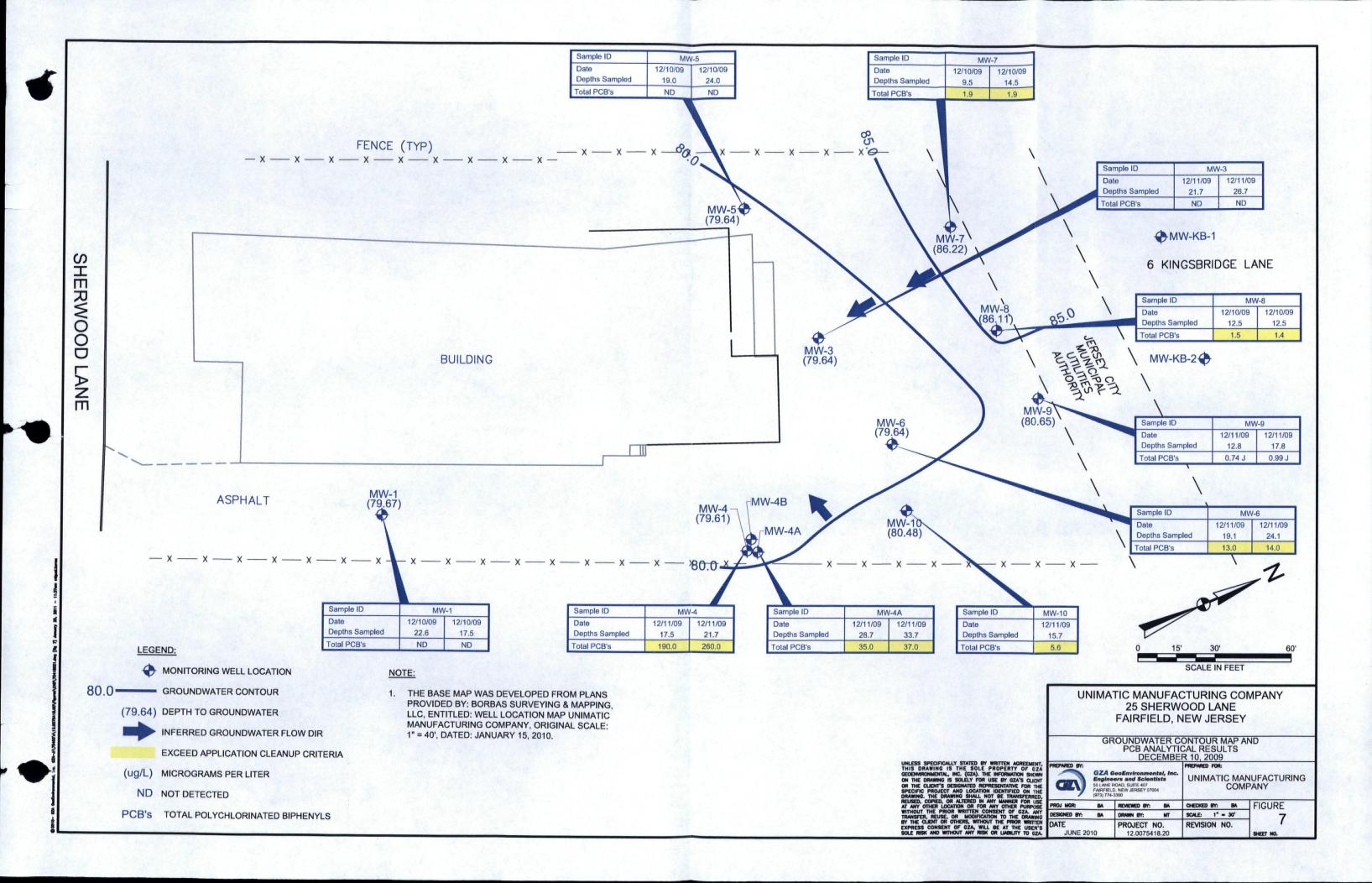
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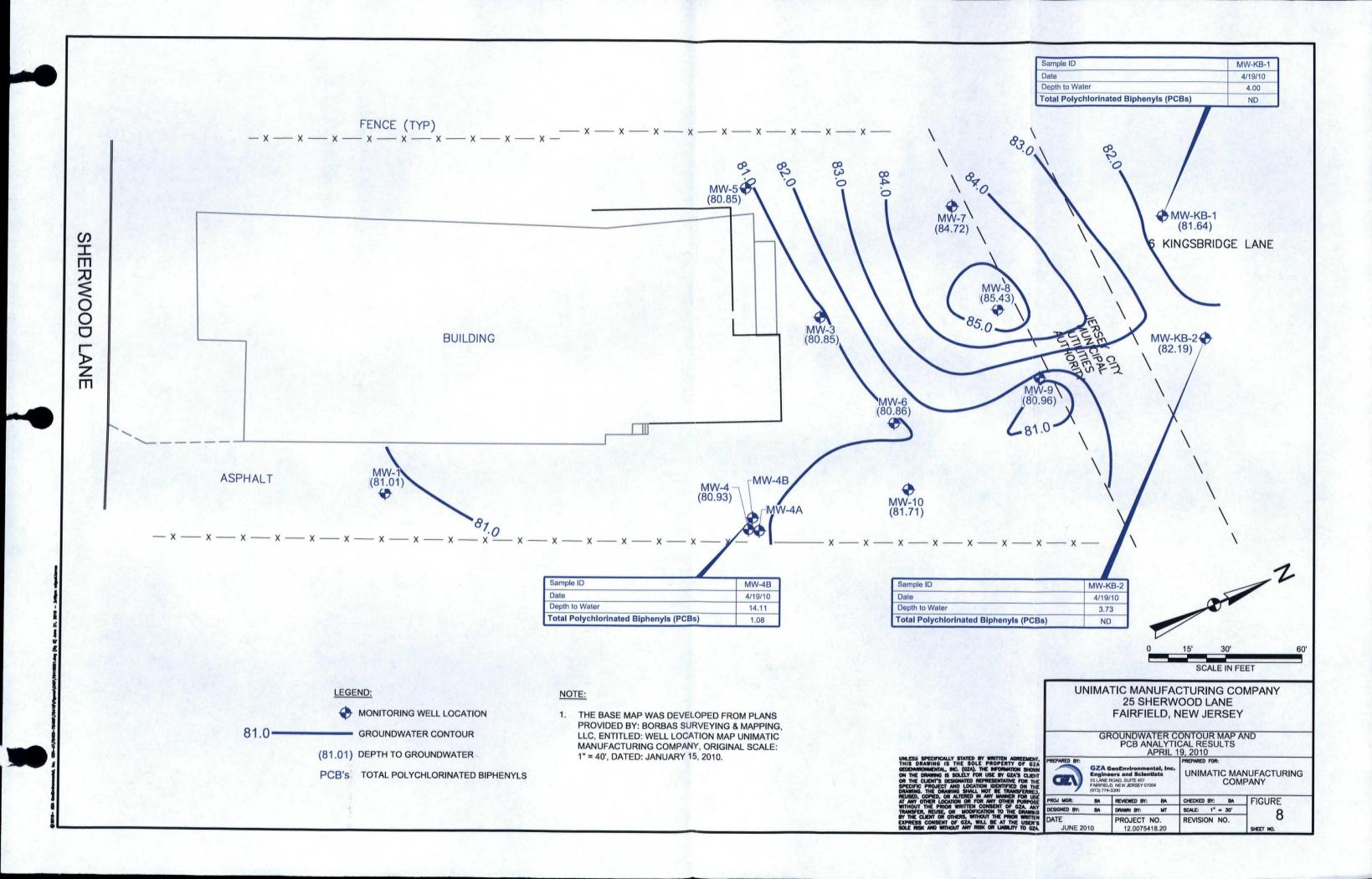


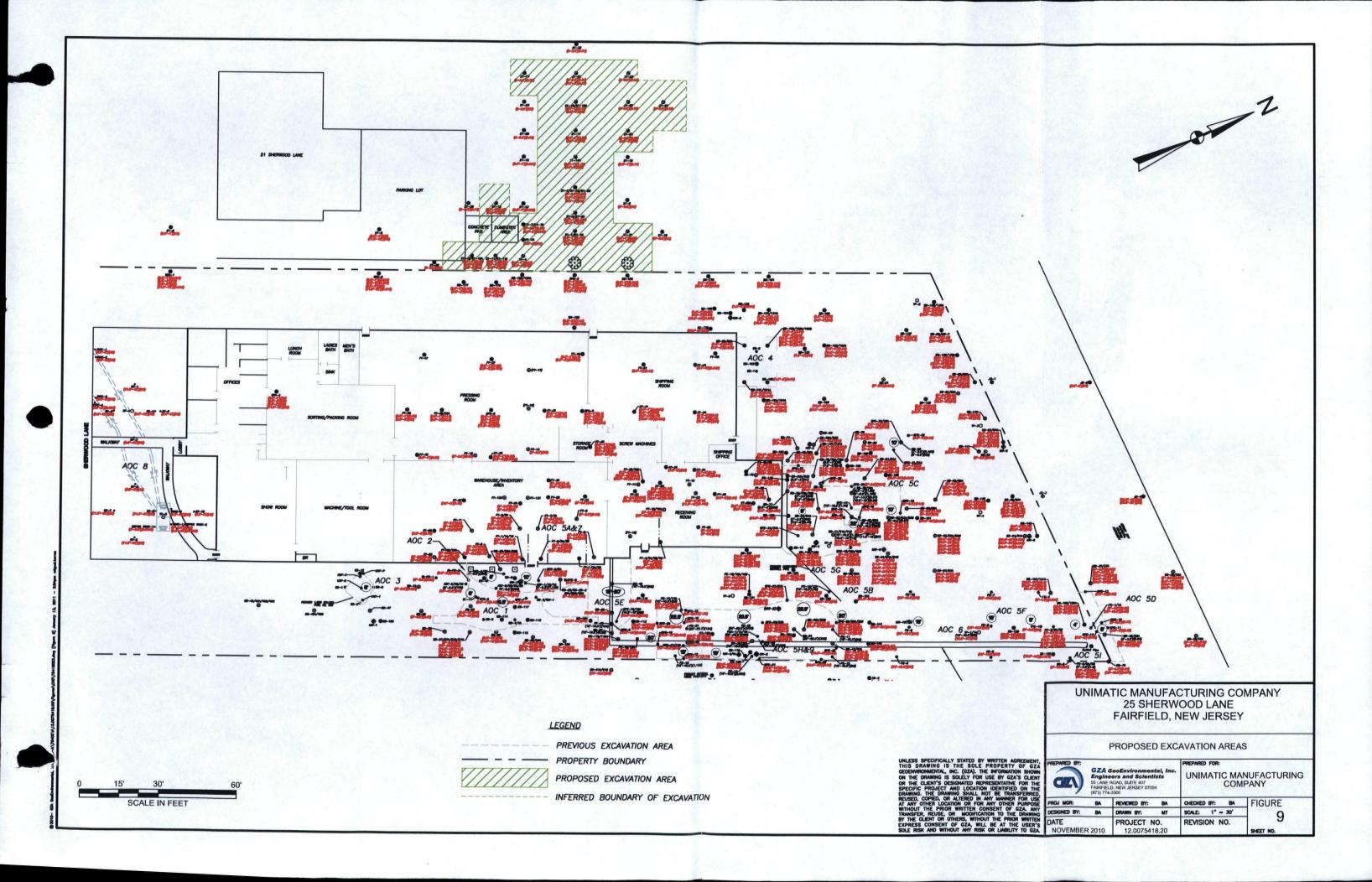


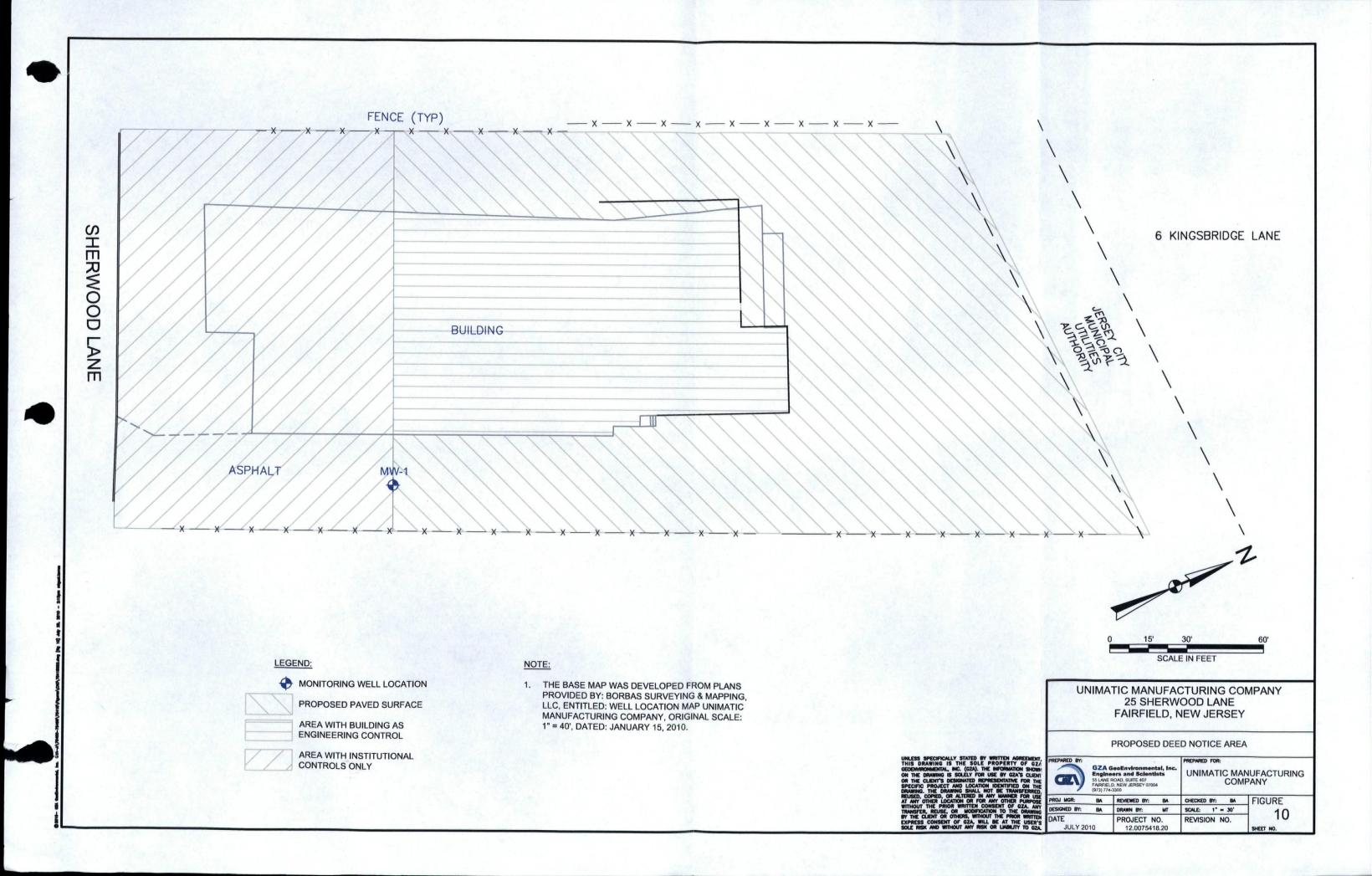












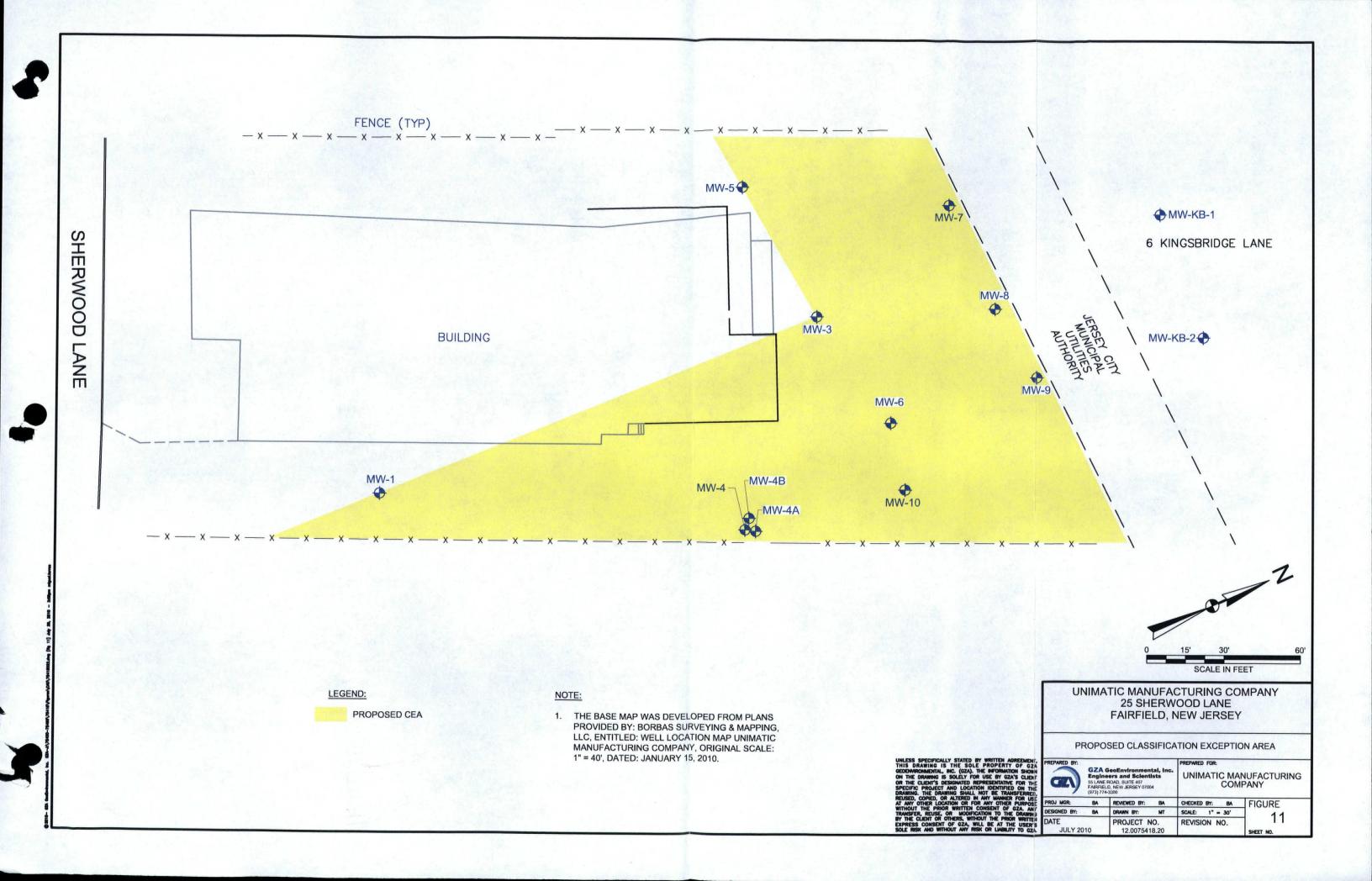




Table 1: Soil Analytical Results - PCBs
Former Unimatic Manufacturing Co. Facility
25 Sherwood Lane, Fairfield, New Jersey

						•					
Sample ID Date Collected Depth Collected (ft bgs)	FT-4C	FT-6A	FT-7A	FT-10A	FT-19	FT-19	FT-19	FT-20	FT-20	FT-21A	FT-21A
	10/26/09	10/22/09	10/26/09	10/26/09	10/23/09	10/23/09	10/23/09	10/22/09	10/22/09	11/18/09	11/18/09
	15.5-16.0	19.5-20.0	7.5-8.0	13.0 - 13.5	3.0-3.5	8.0-8.5	13.0-13.5	2.0-2.5	7.5-8.0	8.0-8.5	15.5-16.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.49	0.29	0.25	0.09	5.62	5.23	3.71	5.34	ND	2,130	1.88
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample ID Date Collected Depth Collected (ft bgs)	FT-22	FT-22	FT-22	FT-22	FT-23	FT-23	FT-24	FT-24	FT-25	FT-25	FT-25
	10/26/09	10/26/09	11/16/09	11/16/09	10/26/09	10/26/09	10/22/09	10/22/09	10/26/09	10/26/09	11/16/09
	7.5-8.0	13.0-13.5	12.5-13.0	15.5-16.0	7.5-8.0	11.5- 12.0	3.0-3.5	9.0-9.5	2.0 - 2.5	7.5-8.0	2.5-3.0
Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND 1.44 ND ND	ND 0.62 ND ND	ND 22.9 ND ND	ND 0.11 ND ND	ND 651 ND ND	ND 0.15 ND ND	ND 0.32 ND ND	25 25 26 27 20 20 20 20 20 20 20 20 20 20 20 20 20	ND 10.2 ND ND	ND 254 ND ND	ND 0.41 ND ND
Sample ID Date Collected Depth Collected (ft bgs)	FT-25A	FT-25	FT-26	FT-27	FT-28	FT-28	FT-29	FT-29	FT-30	FT-30	FT-31
	11/16/09	12/30/09	10/23/09	10/23/09	10/26/09	10/26/09	11/18/09	11/18/09	11/16/09	11/16/09	11/16/09
	7.5-8.0	15.5-16.0	7.5-8.0	7.5-8.0	3.0-3.5	8.0-8.5	3.0-3.5	8.0-8.5	2.0-2.5	7.5-8.0	2.0-2.5
Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	7D 7D 7D 7D	ND 0.14 ND ND	ND 0.16 ND ND	ND 0.12 ND ND	88 88 88 88 88	8 8 8 8 8 8	ND 0.42 ND ND	ND 0.63 ND ND	ND 1.41 ND ND	ND 0.09 ND ND	ND ND ND ND
Sample ID Date Collected Depth Collected (ft bgs)	FT-32	FT-32	FT-32A	FT-33	FT-34	FT-34	FT-35	FT-36	FT-36	FT-37	FT-37
	11/16/09	11/16/09	12/30/09	11/16/09	11/16/09	11/16/09	11/16/09	12/29/09	12/29/09	12/29/09	12/29/09
	7.5-8.0	15.5-16.0	23.5-24.0	7.5-8.0	7.5-8.0	15.5-16.0	7.5-8.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	592	99.4	0.75	ND	4.89	0.34	0.64	14.3	52.8	1.02	0.19
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

	1		L					l			
Sample ID Date Collected	FT-38 12/29/09	FT-38 12/29/09	FT-39 12/29/09	FT-39 12/29/09	FT-40 12/29/09	FT-40 12/29/09	FT-41 12/29/09	FT-41 12/29/09	FT-41 12/29/09	FT-41 12/29/09	FT-42 12/29/09
Depth Collected (ft bgs)	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0	7.5-8.0	15.5-16.0	0.5-1.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	5.29	0.04	848	0.58	3.7	0.08	0.09	286	8.74	0.35	165
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND_	ND	ND	ND	ND
Sample ID	FT-42	FT-42	FT-42	FT-43	FT-44	FT-44	FT-44	FT-45	FT-45	FT-45	FT-46
Date Collected	12/29/09	12/29/09	12/29/09	12/29/09	12/30/09	12/30/09	12/30/09	12/30/09	12/30/09	12/30/09	12/30/09
Depth Collected (ft bgs)	2.5-3.0	7.5-8.0	23.5-24.0	5.5-6.0	5.5-6.0	7.5-8.0	15.5-16.0	2.5-3.0	7.5-8.0	15.5-16.0	23.5-24.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	5.58	ND	ND	0.13	38.3	6.44	ND	2,530	46.1	8.34	0.57
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				•				-			
Sample ID	FT-48	FT-48	FT-49	FT-51	EPA-4	EPA-4	EPA-4	EPA-4	EPA-5	EPA-5	EPA-5
Sample ID Date Collected	FT-48 2/18/10	FT-48 2/18/10	FT-49 2/18/10	FT-51 2/18/10	EPA-4 11/18/09	EPA-4 11/18/09	EPA-4 11/18/09	EPA-4 11/18/09	EPA-5 11/18/09	EPA-5 11/18/09	EPA-5 11/18/09
-											
Date Collected	2/18/10	2/18/10	2/18/10	2/18/10	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09
Date Collected Depth Collected (ft bgs)	2/18/10 0.5-1.0	2/18/10 2.5-3.0	2/18/10 0.5-1.0	2/18/10 2.5-3.0	11/18/09 0.5-1.0	11/18/09 2.0-2.5	11/18/09 7.5-8.0	11/18/09 11.5-12.0	11/18/09 0.5-1.0	11/18/09 2.0-2.5	11/18/09 7.5-8.0
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254	2/18/10 0.5-1.0 ND 0.76 ND	2/18/10 2.5-3.0 ND ND ND ND	2/18/10 0.5-1.0 ND 2.87 ND	2/18/10 2.5-3.0 ND 	11/18/09 0.5-1.0 ND ND ND ND	11/18/09 2.0-2.5 ND ND ND ND	11/18/09 7.5-8.0 ND ND ND ND	11/18/09 11.5-12.0 ND ND ND ND	11/18/09 0.5-1.0 ND 9.53 ND	11/18/09 2.0-2.5 ND 1 TO ND	11/18/09 7.5-8.0 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248	2/18/10 0.5-1.0 ND 0.76	2/18/10 2.5-3.0 ND ND	2/18/10 0.5-1.0 ND 2.87	2/18/10 2.5-3.0 ND 	11/18/09 0.5-1.0 ND ND	11/18/09 2.0-2.5 ND ND	11/18/09 7.5-8.0 ND ND	11/18/09 11.5-12.0 ND ND	11/18/09 0.5-1.0 ND 9.53	11/18/09 2.0-2.5 ND 1 ¬	11/18/09 7.5-8.0 ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254	2/18/10 0.5-1.0 ND 0.76 ND	2/18/10 2.5-3.0 ND ND ND ND	2/18/10 0.5-1.0 ND 2.87 ND	2/18/10 2.5-3.0 ND 	11/18/09 0.5-1.0 ND ND ND ND	11/18/09 2.0-2.5 ND ND ND ND	11/18/09 7.5-8.0 ND ND ND ND	11/18/09 11.5-12.0 ND ND ND ND	11/18/09 0.5-1.0 ND 9.53 ND	11/18/09 2.0-2.5 ND 1 TO ND	11/18/09 7.5-8.0 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	2/18/10 0.5-1.0 ND 0.76 ND ND	2/18/10 2.5-3.0 ND ND ND ND ND	2/18/10 0.5-1.0 ND 2.87 ND ND	2/18/10 2.5-3.0 ND - 2.42 ND ND	11/18/09 0.5-1.0 ND ND ND ND ND	11/18/09 2.0-2.5 ND ND ND ND	11/18/09 7.5-8.0 ND ND ND ND	11/18/09 11.5-12.0 ND ND ND ND	11/18/09 0.5-1.0 ND 9.53 ND	11/18/09 2.0-2.5 ND 1 TO ND	11/18/09 7.5-8.0 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID	2/18/10 0.5-1.0 ND 0.76 ND ND	2/18/10 2.5-3.0 ND ND ND ND ND	2/18/10 0.5-1.0 ND 2.87 ND ND ND	2/18/10 2.5-3.0 ND 2.42 ND ND ND	11/18/09 0.5-1.0 ND ND ND ND ND	11/18/09 2.0-2.5 ND ND ND ND	11/18/09 7.5-8.0 ND ND ND ND	11/18/09 11.5-12.0 ND ND ND ND	11/18/09 0.5-1.0 ND 9.53 ND	11/18/09 2.0-2.5 ND 1 TO ND	11/18/09 7.5-8.0 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected	2/18/10 0.5-1.0 ND 0.76 ND ND ND EPA-5 11/18/09	2/18/10 2.5-3.0 ND ND ND ND ND ND EPA-6 11/18/09	2/18/10 0.5-1.0 ND 2.87 ND ND ND EPA-6 11/18/09	2/18/10 2.5-3.0 ND 2.42 ND ND ND EPA-6 11/18/09	11/18/09 0.5-1.0 ND ND ND ND ND ND 11/18/09	11/18/09 2.0-2.5 ND ND ND ND	11/18/09 7.5-8.0 ND ND ND ND	11/18/09 11.5-12.0 ND ND ND ND	11/18/09 0.5-1.0 ND 9.53 ND	11/18/09 2.0-2.5 ND 1 TO ND	11/18/09 7.5-8.0 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs)	2/18/10 0.5-1.0 ND 0.76 ND ND EPA-5 11/18/09 11.5-12.0	2/18/10 2.5-3.0 ND ND ND ND ND EPA-6 11/18/09 0.5-1.0	2/18/10 0.5-1.0 ND 2.87 ND ND EPA-6 11/18/09 2.5-3.0	2/18/10 2.5-3.0 ND 2.42 ND ND EPA-6 11/18/09 7.5-8.0	11/18/09 0.5-1.0 ND ND ND ND EPA-6 11/18/09 11.5-12.0	11/18/09 2.0-2.5 ND ND ND ND	11/18/09 7.5-8.0 ND ND ND ND	11/18/09 11.5-12.0 ND ND ND ND	11/18/09 0.5-1.0 ND 9.53 ND	11/18/09 2.0-2.5 ND 1 TO ND	11/18/09 7.5-8.0 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs) Aroclor 1242	2/18/10 0.5-1.0 ND 0.76 ND ND EPA-5 11/18/09 11.5-12.0 ND	2/18/10 2.5-3.0 ND ND ND ND ND ND EPA-6 11/18/09 0.5-1.0	2/18/10 0.5-1.0 ND 2.87 ND ND EPA-6 11/18/09 2.5-3.0	2/18/10 2.5-3.0 ND 2.42 ND ND EPA-6 11/18/09 7.5-8.0	11/18/09 0.5-1.0 ND ND ND ND ND EPA-6 11/18/09 11.5-12.0	11/18/09 2.0-2.5 ND ND ND ND	11/18/09 7.5-8.0 ND ND ND ND	11/18/09 11.5-12.0 ND ND ND ND	11/18/09 0.5-1.0 ND 9.53 ND	11/18/09 2.0-2.5 ND 1 TO ND	11/18/09 7.5-8.0 ND ND ND

Sample ID	SB-26A-28	SB-26A-32	SB-27C-32	SB-29B-32	SB-29A-16	SB-37A-10	SB-37A-18	SB-37A-26	SB-37A-30	SB-39A-10	SB-39A-18
Date Collected	3/25/10	3/25/10	4/21/10	4/21/10	10/15/09	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10
Depth Collected (ft bgs)	27.5-28.0	31.5-32.0	31.5-32.0	31.5-32.0	15.5-16.0	9.5-10.0	17.5-18.0	25.5-26.0	28.5-30.0	9.5-10.0	17.5-18.0
Aroclor 1242	ND	NID	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.05J	5.4	1.1	ND	0.34	1.1	2.04	1.13	0.67	ND	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample ID	SB-39A-26	SB-40A-10	SB-41B-37	SB-42B-28	SB-43A-24	SB-43A- 32C	SB-56B-35	SB-60C-32	SB-69A-12	SB-70A-12	SB-70A- 20C
Date Collected	3/9/10	3/9/10	11/2/09	11/17/09	10/22/09	10/22/09	1/4/10	4/21/10	10/19/09	10/19/09	10/19/09
Depth Collected (ft bgs)	25.5-26.0	9,5-10,0	35.5-36.0	27.5-28.0	23.5-24.0	31.5-32.0	34.5-35.0	31.5-32.0	11.5-12.0	11.5-12.0	19.5-20.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND 1	ND	0.53	1.03	2.73	4.09	0.06	ND	1	3.63	1.24
Aroclor 1254	ND	ND	ПИ	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample ID	SB-70B-28	SB-78B-20	SB-82A-36	SB-83B-36	SB-84B-38	SB-85A-36	&SB10000	SB-86B-36	SB-87A-36	SB-89A-38	SB-92A-8
Date Collected	1/4/10	10/21/09	10/29/09	SB-83B-36 10/28/09	SB-84B-38 10/28/09	SB-85A-36 10/30/09	&SB10000 10/30/09	SB-86B-36 10/30/09	SB-87A-36 10/29/09	SB-89A-38 10/29/09	SB-92A-8 10/19/09
g -			l '			A 36 74 757 1			l .	i e	
Date Collected	1/4/10	10/21/09	10/29/09	10/28/09	10/28/09	10/30/09	10/30/09	10/30/09	10/29/09	10/29/09	10/19/09
Date Collected Depth Collected (ft bgs)	1/4/10 27.5-28.0	10/21/09 19.5-20.0	10/29/09 35.5-36.0	10/28/09 35.5-36.0	10/28/09 37.5-38.0	10/30/09 35.5-36.0	10/30/09 35.5-36.0	10/30/09 35.5-36.0	10/29/09 35.5-36.0	10/29/09 37.5-38.0	10/19/09 7.5-8.0
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254	1/4/10 27.5-28.0 ND	10/21/09 19.5-20.0 ND	10/29/09 35.5-36.0 ND	10/28/09 35.5-36.0 ND	10/28/09 37.5-38.0 ND	10/30/09 35.5-36.0 ND	10/30/09 35.5-36.0 ND	10/30/09 35.5-36.0 ND	10/29/09 35.5-36.0 ND	10/29/09 37.5-38.0 ND	10/19/09 7.5-8.0 ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248	1/4/10 27.5-28.0 ND 0.49	10/21/09 19.5-20.0 ND ND	10/29/09 35.5-36.0 ND 2.93	10/28/09 35.5-36.0 ND 2.38	10/28/09 37.5-38.0 ND 0.36	10/30/09 35.5-36.0 ND 0.11	10/30/09 35.5-36.0 ND 0.21	10/30/09 35.5-36.0 ND ND	10/29/09 35.5-36.0 ND ND	10/29/09 37.5-38.0 ND 1.2	10/19/09 7.5-8.0 ND 7.42
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254	1/4/10 27.5-28.0 ND 0.49 ND	10/21/09 19.5-20.0 ND ND ND ND	10/29/09 35.5-36.0 ND 2.93 ND	10/28/09 35.5-36.0 ND 2.38 ND	10/28/09 37.5-38.0 ND 0.36 ND	10/30/09 35.5-36.0 ND 0.11 ND	10/30/09 35.5-36.0 ND 0.21 ND	10/30/09 35.5-36.0 ND ND ND ND ND SB-96A-	10/29/09 35.5-36.0 ND ND ND	10/29/09 37.5-38.0 ND 1.2 ND	10/19/09 7.5-8.0 ND 7.42 ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected	1/4/10 27.5-28.0 ND 0.49 ND ND ND	10/21/09 19.5-20.0 ND ND ND ND ND	10/29/09 35.5-36.0 ND 2.93 ND ND	10/28/09 35.5-36.0 ND 2.38 ND ND	10/28/09 37.5-38.0 ND 0.36 ND ND	10/30/09 35.5-36.0 ND 0.11 ND ND	10/30/09 35.5-36.0 ND 0.21 ND ND	10/30/09 35.5-36.0 ND ND ND ND ND	10/29/09 35.5-36.0 ND ND ND ND	10/29/09 37.5-38.0 ND 1.2 ND ND	10/19/09 7.5-8.0 ND 7.42 ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID	1/4/10 27.5-28.0 ND 0.49 ND ND ND SB-92A- 16C	10/21/09 19.5-20.0 ND ND ND ND ND ND SB-94A-29	10/29/09 35.5-36.0 ND 2.93 ND ND ND	10/28/09 35.5-36.0 ND 2.38 ND ND ND	10/28/09 37.5-38.0 ND 0.36 ND ND ND	10/30/09 35.5-36.0 ND 0.11 ND ND SB-96-8C	10/30/09 35.5-36.0 ND 0.21 ND ND SB-96A-16	10/30/09 35.5-36.0 ND ND ND ND ND SB-96A- 24C	10/29/09 35.5-36.0 ND ND ND ND ND SB-97-3	10/29/09 37.5-38.0 ND 1.2 ND ND ND SB-97-8C	10/19/09 7.5-8.0 ND 7.42 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected	1/4/10 27.5-28.0 ND 0.49 ND ND ND SB-92A- 16C 10/19/09	10/21/09 19.5-20.0 ND ND ND ND ND SB-94A-29 10/14/09	10/29/09 35.5-36.0 ND 2.93 ND ND ND SB-95-3 10/14/09	10/28/09 35.5-36.0 ND 2.38 ND ND ND SB-95-8C 10/14/09	10/28/09 37.5-38.0 ND 0.36 ND ND ND SB-96-3 10/14/09	10/30/09 35.5-36.0 ND 0.11 ND ND SB-96-8C 10/14/09	10/30/09 35.5-36.0 ND 0.21 ND ND SB-96A-16	10/30/09 35.5-36.0 ND ND ND ND ND SB-96A- 24C 11/13/09	10/29/09 35.5-36.0 ND ND ND ND ND SB-97-3 10/14/09	10/29/09 37.5-38.0 ND 1.2 ND ND SB-97-8C 10/14/09	10/19/09 7.5-8.0 ND 7.42 ND ND SB-97A-16 11/18/09
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs)	1/4/10 27.5-28.0 ND 0.49 ND ND SB-92A- 16C 10/19/09 15.5-16.0	10/21/09 19.5-20.0 ND ND ND ND ND SB-94A-29 10/14/09 28.5-29.0	10/29/09 35.5-36.0 ND 2.93 ND ND ND SB-95-3 10/14/09 3.0-3.5	10/28/09 35.5-36.0 ND 2.38 ND ND ND SB-95-8C 10/14/09 7.5-8.0	10/28/09 37.5-38.0 ND 0.36 ND ND SB-96-3 10/14/09 3.0-3.5	10/30/09 35.5-36.0 ND 0.11 ND ND SB-96-8C 10/14/09 7.5-8.0	10/30/09 35.5-36.0 ND 0.21 ND ND SB-96A-16 11/13/09 15.5-16.0	10/30/09 35.5-36.0 ND ND ND ND ND SB-96A- 24C 11/13/09 23.5-24.0	10/29/09 35.5-36.0 ND ND ND ND SB-97-3 10/14/09 3.0-3.5	10/29/09 37.5-38.0 ND 1.2 ND ND SB-97-8C 10/14/09 7.5-8.0	10/19/09 7.5-8.0 ND 7.42 ND ND SB-97A-16 11/18/09 15.5-16.0
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs) Aroclor 1242	1/4/10 27.5-28.0 ND 0.49 ND ND SB-92A- 16C 10/19/09 15.5-16.0	10/21/09 19.5-20.0 ND ND ND ND SB-94A-29 10/14/09 28.5-29.0	10/29/09 35.5-36.0 ND 2.93 ND ND SB-95-3 10/14/09 3.0-3.5	10/28/09 35.5-36.0 ND 2.38 ND ND SB-95-8C 10/14/09 7.5-8.0	10/28/09 37.5-38.0 ND 0.36 ND ND SB-96-3 10/14/09 3.0-3.5	10/30/09 35.5-36.0 ND 0.11 ND ND SB-96-8C 10/14/09 7.5-8.0	10/30/09 35.5-36.0 ND 0.21 ND ND SB-96A-16 11/13/09 15.5-16.0	10/30/09 35.5-36.0 ND ND ND ND SB-96A- 24C 11/13/09 23.5-24.0	ND ND ND ND ND ND ND ND ND ND ND ND ND N	10/29/09 37.5-38.0 ND 1.2 ND ND SB-97-8C 10/14/09 7.5-8.0	10/19/09 7.5-8.0 ND 7.42 ND ND SB-97A-16 11/18/09 15.5-16.0 ND

Sample ID	SB-97A-24	SB 074 20	SB-98-3	SB-98A-8	SB-98-24	SB-98-29	SB-98A-33	SB-084-35	SB-99-2	SB-99A-8	SB-100-2
Date Collected	11/18/09	1/4/10	10/14/09	11/18/09	10/14/09	10/14/09	12/4/09	1/4/10	10/14/09	11/11/09	10/14/09
Depth Collected (ft bgs)	23.5-24.0	28.5-29.0	3.0-3.5	7.5-8.0	23.5-24.0	28.5-29.0	32,5-33.0	34.5-35.0	2.0-2.5	7.5-8.0	2.0-2.5
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	0.13	445	1.18	1.22	5.77	ND	0.08	5.02	0.83	7.91
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND_	ND	ND
Sample ID	SB-100A-8	SB-100A- 16C	SB-100B- 24	SB-100B- 32C	SB-101-2	SB-101A-8	SB-102-2	SB-105-16	SB-108-2	SB-108-4C	SB-108-8
Date Collected	11/11/09	11/11/09	12/28/09	12/28/09	10/14/09	11/11/09	10/14/09	10/19/09	11/12/09	11/12/09	10/15/09
Depth Collected (ft bgs)	7.5-8.0	15,5-16.0	23.5-24.0	31.5-32.0	2,0-2.5	7.5-8.0	2.0-2.5	15.5-16.0	1.5-2.0	3.5-4.0	7.5-8.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	3.6	2.61	3.2	0.18	6.51	0.65	0.93	ND	42.9	4.57	495
Aroclor 1254	ŃD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample ID	SB-108B- 12	SB-108B- 16	SB-109-2	SB-109-4C	SB-109-13	SB-110-2	SB-110-4C	SB-110-8	SB-110B- 12	SB-110B- 16	SB-111-2
ln (
Date Collected	1/26/10	1/26/10	11/12/09	11/12/09	10/15/09	11/12/09	11/12/09	10/15/09	1/26/10	1/26/10	11/12/09
Date Collected Depth Collected (ft bgs)	1/26/10 11.5-12.0	1/26/10 15.5-16.0	11/12/09 1.5-2.0	11/12/09 3.5-4.0	10/15/09 12.5-13.0	11/12/09 1.5-2.0	11/12/09 3.5-4.0	10/15/09 7.5-8.0	1/26/10 11.5-12.0	1/26/10 15.5-16.0	11/12/09 1.5-2.0
	1	1		1			3.5-4.0 ND		11.5-12.0 ND	15.5-16.0 ND	1.5-2.0 ND
Depth Collected (ft bgs)	11.5-12.0	15.5-16.0	1.5-2.0	3.5-4.0	12.5-13.0 ND 0.91	1.5-2.0 ND 625	3.5-4.0 ND 1.38	7.5-8.0 NID 176	11.5-12.0 ND 310	15,5-16.0 ND 2.69	1.5-2.0 ND 0.92
Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254	ND 7.92 ND	15.5-16.0 ND ND ND	1.5-2.0 ND 7 ND	3.5-4.0 ND 0.60 ND	12.5-13.0 ND 0.91 ND	1.5-2.0 ND 625 ND	3.5-4.0 ND 1.38 ND	7.5-8.0 ND 176 ND	11.5-12.0 ND 310 ND	15,5-16.0 ND 2.69 ND	1.5-2.0 ND 0.92 ND
Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248	NID 7.92	15.5-16.0 ND ND	1.5-2.0 ND 7	3.5-4.0 ND 0.60	12.5-13.0 ND 0.91	1.5-2.0 ND 625	3.5-4.0 ND 1.38	7.5-8.0 NID 176	11.5-12.0 ND 310	15,5-16.0 ND 2.69	1.5-2.0 ND 0.92
Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254	ND 7.92 ND	15.5-16.0 ND ND ND ND ND	1.5-2.0 ND 7 ND ND ND	3.5-4.0 ND 0.60 ND ND SB-111B-	12.5-13.0 ND 0.91 ND	1.5-2.0 ND 625 ND ND SB-113-	3.5-4.0 ND 1.38 ND	7.5-8.0 ND 176 ND ND	ND 310 ND ND ND ND SB-118-	15.5-16.0 ND 2.69 ND ND ND	1.5-2.0 ND 0.92 ND ND ND
Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID	ND 7.92 ND ND ND ND SB-111-8	ND ND ND ND ND ND ND	1.5-2.0 ND 7 ND ND ND SB-111B- 12	3.5-4.0 ND 0.60 ND ND	12.5-13.0 ND 0.91 ND ND	1.5-2.0 ND 625 ND ND	3.5-4.0 ND 1.38 ND ND	7.5-8.0 ND 176 ND ND	ND 310 ND ND ND	15.5-16.0 ND 2.69 ND ND	1.5-2.0 ND 0.92 ND ND
Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	NID 7.92 NID NID NID	15.5-16.0 ND ND ND ND ND	1.5-2.0 ND 7 ND ND ND	3.5-4.0 ND 0.60 ND ND SB-111B- 16	12.5-13.0 ND 0.91 ND ND ND	1.5-2.0 ND 625 ND ND SB-113- 24C	3.5-4.0 ND 1.38 ND ND ND SB-118-16	7.5-8.0 NID 176 NID NID SB20000	ND 310 ND ND ND SB-118- 24C	ND 2.69 ND ND ND SB-118A- 32	1.5-2.0 ND 0.92 ND ND ND SB-118A- 34C
Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected	NID 7.92 NID NID NID SB-111-8 10/15/09	ND ND ND ND ND ND SB-111B- 10 1/26/10	1.5-2,0 ND 7 ND ND SB-111B- 12 1/26/10	3.5-4.0 ND 0.60 ND ND SB-111B- 16 1/26/10	ND 0.91 ND ND ND SB-113-16 10/19/09	1.5-2.0 ND 625 ND ND SB-113- 24C 10/19/09	3.5-4.0 ND 1.38 ND ND SB-118-16- 11/11/09	7.5-8.0 NID 176 NID NID SB20000 11/11/09	ND 310 ND ND ND SB-118- 24C 11/11/09	ND 2.69 ND ND ND SB-118A- 32 1/4/10	1.5-2.0 ND 0.92 ND ND SB-118A- 34C 1/4/10
Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs) Aroclor 1242	NID 7.92 NID NID NID SB-111-8 10/15/09 7.5-8.0	ND ND ND ND ND SB-111B- 10 1/26/10 9,5-10.0	1.5-2,0 ND 7 ND ND SB-111B- 12 1/26/10 11.5-12.0	3.5-4.0 ND 0.60 ND ND SB-111B- 16 1/26/10 15.5-16.0	ND 0.91 ND ND ND SB-113-16 10/19/09 15.5-16.0	1.5-2.0 ND 625 ND ND SB-113- 24C 10/19/09 23.5-24.0	3.5-4.0 ND 1.38 ND ND SB-138-16- 11/11/09 15.5-16.0	7.5-8.0 NID 176 NID NID SB200000 11/11/09 15.5-16.0	ND 310 ND ND ND SB-118- 24C 11/11/09 23.5-24.0	ND 2.69 ND ND ND SB-118A- 32 1/4/10 31.5-32.0	1.5-2.0 ND 0.92 ND ND SB-118A- 34C 1/4/10 33.5-34.0
Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs)	NID 7.92 NID NID SB-111-8 10/15/09 7.5-8.0 NID	ND ND ND ND ND ND 1/26/10 9,5-10.0	1.5-2.0 ND 7 ND ND SB-111B- 12 1/26/10 11.5-12.0 ND	3.5-4.0 ND 0.60 ND ND SB-111B- 16 1/26/10 15.5-16.0	ND 0.91 ND ND SB-113-16 10/19/09 15.5-16.0 ND	ND 625 ND ND SB-113- 24C 10/19/09 23.5-24.0	3.5-4.0 ND 1.38 ND ND ND SB-118-16- 11/11/09 15.5-16.0	7.5-8.0 NID 176 NID NID SB200000 11/11/09 15.5-16.0 NID	ND 310 ND ND ND SB-118- 24C 11/11/09 23.5-24.0	ND 2.69 ND ND SB-118A-32 1/4/10 31.5-32.0 ND	ND 0.92 ND ND ND SB-118A- 34C 1/4/10 33.5-34.0

Sample ID	SB-119-16	SB-120-28	SB-120- 36C	SB-121-28	SB-121- 36C	SB-122-28	SB-122- 36C	SB-123-28	SB-123- 36C	SB-124-26	SB-124- 36C
Date Collected Depth Collected (ft bgs)	11/12/09 15.5-16.0	12/4/09 27.5-28.0	12/4/09 35.5-36.0	12/30/09 27.5-28.0	12/30/09 35,5-36,0	12/30/09 27.5-28.0	12/30/09 35.5-36.0	12/4/09 27.5-28.0	12/4/09 35.5-36.0	11/30/09 25.5-26.0	11/30/09 35.5-36.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	4.36	20.6	2.39	31.9	17.5	10.9	12.9	18.7	1.05	3.85
Aroclor 1254	ND	ND	ND	ND	ND	CIN	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample ID	SB-125-26	SB-126-16	SB-126- 24C	SB-127-16	SB-127- 24C	SB-127A- 32	SB-128-16	SB-128- 24C	SB-128A- 32	SB-129-16	SB-130-12
Date Collected	11/17/09	11/12/09	11/12/09	11/12/09	11/12/09	12/29/09	11/13/09	11/13/09	12/29/09	12/28/09	11/13/09
Depth Collected (ft bgs)	25.5-26.0	15.5-16.0	23.5-24.0	15.5-16.0	23.5-24.0	31,5-32.0	15.5-16.0	23.5-24.0	31.5-32.0	15.5-16.0	11.5-12.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	22.2	13.5	18.9	60.8	ND	7.98	3.25	1.39	0.07J	9.86
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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Sample ID	SB-130-20	SB-131-12	SB-131-20	SB-131- 28C	SB-131A- 33	SB-133-2	SB-134-2	SB-134-8C	SB-134-16	SB-135-2	SB-136-3
Date Collected	11/13/09	11/13/09	11/13/09	28C 11/13/09		SB-133-2 11/11/09	SB-134-2 11/11/09	SB-134-8C 11/11/09	SB-134-16 12/16/09	SB-135-2 11/11/09	11/12/09
1			11/13/09	28C	33						Ì
Date Collected	11/13/09	11/13/09	11/13/09	28C 11/13/09	33 12/30/09	11/11/09	11/11/09	11/11/09	12/16/09	11/11/09	11/12/09
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248	11/13/09 19.5-20.0 ND 0.10	11/13/09 11.5-12.0 ND 0.64	11/13/09 19.5-20.0 ND 8.92	28C 11/13/09 27.5-28.0 ND	33 12/30/09 32.5-33.0 ND	11/11/09 1.5-2.0 ND ND	11/11/09 1.5-2.0	11/11/09 7.5-8.0	12/16/09 15.5-16.0	11/11/09 1.5-2.0 ND 0.07	11/12/09 2.5-3.0 ND 40.6
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254	11/13/09 19.5-20.0 ND 0.10 ND	11/13/09 11.5-12.0 ND 0.64 ND	11/13/09 19.5-20.0 ND 8.92	28C 11/13/09 27.5-28.0 ND 14.1 ND	33 12/30/09 32.5-33.0 ND 2.08 ND	11/11/09 1.5-2.0 ND ND ND	11/11/09 1.5-2.0 ND 4.41 ND	11/11/09 7.5-8.0 ND 4.72 ND	12/16/09 15.5-16,0 ND ND ND ND	11/11/09 1.5-2.0 ND 0.07 ND	11/12/09 2.5-3.0 ND 40.6 ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248	11/13/09 19.5-20.0 ND 0.10	11/13/09 11.5-12.0 ND 0.64	11/13/09 19.5-20.0 ND 8.92	28C 11/13/09 27.5-28.0 ND	33 12/30/09 32.5-33.0 ND	11/11/09 1.5-2.0 ND ND	11/11/09 1.5-2.0 ND 4.41	11/11/09 7.5-8.0 ND 4.72	12/16/09 15.5-16,0 ND ND	11/11/09 1.5-2.0 ND 0.07	11/12/09 2.5-3.0 ND 40.6
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254	11/13/09 19.5-20.0 ND 0.10 ND	11/13/09 11.5-12.0 ND 0.64 ND	11/13/09 19.5-20.0 ND 8.92	28C 11/13/09 27.5-28.0 ND 14.1 ND	33 12/30/09 32.5-33.0 ND 2.08 ND	11/11/09 1.5-2.0 ND ND ND	11/11/09 1.5-2.0 ND 4.41 ND	11/11/09 7.5-8.0 ND 4.72 ND	12/16/09 15.5-16,0 ND ND ND ND	11/11/09 1.5-2.0 ND 0.07 ND	11/12/09 2.5-3.0 ND 40.6 ND ND SB-139-
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected	11/13/09 19.5-20.0 ND 0.10 ND ND ND SB-136-8C 11/12/09	11/13/09 11.5-12.0 ND 0.64 ND ND ND	11/13/09 19.5-20.0 ND 8.92 ND ND	28C 11/13/09 27.5-28.0 ND 14.1 ND ND	33 12/30/09 32.5-33.0 ND 2.08 ND ND	11/11/09 1.5-2.0 ND ND ND ND ND	11/11/09 1.5-2.0 ND 4.41 ND ND SB-138-	11/11/09 7.5-8.0 ND 4.72 ND ND SB-138A-	12/16/09 15.5-16.0 ND ND ND ND	11/11/09 1.5-2.0 ND 0.07 ND ND	11/12/09 2.5-3.0 ND 40.6 ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID	11/13/09 19.5-20.0 ND 0.10 ND ND ND SB-136-8C	11/13/09 11.5-12.0 ND 0.64 ND ND SB-136A- 16	11/13/09 19.5-20.0 ND 8.92 ND ND ND SB-137-3	28C 11/13/09 27.5-28.0 ND 14.1 ND ND SB-137-8C	33 12/30/09 32.5-33.0 ND 2.08 ND ND ND SB-138-3	11/11/09 1.5-2.0 ND ND ND ND ND ND SB-138-8	11/11/09 1.5-2.0 ND 4.41 ND ND SB-138- 16C	11/11/09 7.5-8.0 ND 4.72 ND ND SB-138A- 24	12/16/09 15.5-16.0 ND ND ND ND ND ND SB-139-3	11/11/09 1.5-2.0 ND 0.07 ND ND ND SB-139-8	11/12/09 2.5-3.0 ND 40.6 ND ND SB-139- 16C
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected	11/13/09 19.5-20.0 ND 0.10 ND ND ND SB-136-8C 11/12/09	11/13/09 11.5-12.0 ND 0.64 ND ND SB-136A- 16 12/16/09	11/13/09 19.5-20.0 ND 8.92 ND ND ND SB-137-3 11/12/09	28C 11/13/09 27.5-28.0 ND 14.1 ND ND SB-137-8C 11/12/09	33 12/30/09 32.5-33.0 ND ND ND ND SB-138-3 11/16/09	11/11/09 1.5-2.0 ND ND ND ND ND SB-138-8 11/16/09	11/11/09 1.5-2.0 ND 4.41 ND ND SB-138- 16C 11/16/09	11/11/09 7.5-8.0 ND 4.72 ND ND SB-138A- 24 12/28/09	12/16/09 15.5-16.0 ND ND ND ND ND SB-139-3 11/16/09	11/11/09 1.5-2.0 ND 0.07 ND ND SB-139-8 11/16/09	11/12/09 2.5-3.0 ND 40.6 ND ND SB-139- 16C 11/16/09
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248	11/13/09 19.5-20.0 ND 0.10 ND ND SB-136-8C 11/12/09 7.5-8.0	11/13/09 11.5-12.0 ND 0.64 ND ND SB-136A- 16 12/16/09 15.5-16.0	11/13/09 19.5-20.0 ND 8.92 ND ND ND SB-137-3 11/12/09 2.5-3.0	28C 11/13/09 27.5-28.0 ND 14.1 ND ND SB-137-8C 11/12/09 7.5-8.0	33 12/30/09 32.5-33.0 ND ND ND ND SB-138-3 11/16/09 2.5-3.0	11/11/09 1.5-2.0 ND ND ND ND ND SB-138-8 11/16/09 7.5-8.0	11/11/09 1.5-2.0 ND 4.41 ND ND SB-138- 16C 11/16/09 15.5-16.0	11/11/09 7.5-8.0 ND 4.72 ND ND SB-138A- 24 12/28/09 23.5-24.0	12/16/09 15.5-16.0 ND ND ND ND SB-139-3 11/16/09 2.5-3.0	11/11/09 1.5-2.0 ND 0.07 ND ND SB-139-8 11/16/09 7.5-8.0	11/12/09 2.5-3.0 ND 40.6 ND ND SB-139- 16C 11/16/09 15.5-16.0
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs) Aroclor 1242	11/13/09 19.5-20.0 ND 0.10 ND ND SB-136-8C 11/12/09 7.5-8.0 ND	11/13/09 11.5-12.0 ND 0.64 ND ND SB-136A- 16 12/16/09 15.5-16.0	11/13/09 19.5-20.0 ND 8.92 ND ND ND SB-137-3 11/12/09 2.5-3.0	28C 11/13/09 27.5-28.0 ND 14.1 ND ND SB-137-8C 11/12/09 7.5-8.0	33 12/30/09 32.5-33.0 ND 2.08 ND ND SB-138-3 11/16/09 2.5-3.0	11/11/09 1.5-2.0 ND ND ND ND ND SB-138-8 11/16/09 7.5-8.0	11/11/09 1.5-2.0 ND 4.41 ND ND SB-138- 16C 11/16/09 15.5-16.0	11/11/09 7.5-8.0 ND 4.72 ND ND SB-138A- 24 12/28/09 23.5-24.0	12/16/09 15.5-16.0 ND ND ND ND SB-139-3 11/16/09 2.5-3.0	11/11/09 1.5-2.0 ND 0.07 ND ND SB-139-8 11/16/09 7.5-8.0	11/12/09 2.5-3.0 ND 40.6 ND ND SB-139- 16C 11/16/09 15.5-16.0

Sample ID	SB-140-8	SB-140- 16C	SB-141-8	SB 3000	SB-141- 16C	SB-142-3	SB-142-24	SB-142-29	SB-143-3	SB-143-24	SB-144-26
Date Collected	11/16/09	11/16/09	11/13/09	11/13/09	11/13/09	11/18/09	11/18/09	12/4/09	11/13/09	11/13/09	11/17/09
Depth Collected (ft bgs)	7.5-8.0	15.5-16.0	7.5-8.0	7.5-8.0	15.5-16.0	2.5-3.0	23.5-24.0	28.5-29.0	2.5-3.0	23.5-24.0	25.5-26.0
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Aroclor 1242	ND	ND	6.29	1.32	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	6.25	ND	ND	ND	4.51	7.59	ND	ND	1.08	ND	0.56
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<u> </u>	<u> </u>									GD 1474	
Sample ID	SB-145-24	SB-145	SB-146-14	SB-146-20	SB-146- 28C	SB-146A- 35	SB-147-2	SB-147-4C	SB-147A-8	SB-147A- 12	SB-148-2
Date Collected	11/17/09	12/2/09	11/16/09	11/16/09	11/16/09	12/29/09	11/11/09	11/11/09	3/9/10	3/9/10	11/11/09
Depth Collected (ft bgs)	23.5-24.0	35.5-36.0	13.5-14.0	19.5-20.0	27.5-28.0	34.5-35.0	1.5-2.0	3.5-4.0	7,5-8,0	11.5-12.0	1.5-2.0
									. 227	3.75	
Aroclor 1242	ND	ND	מא	ND	ND	ND	ND	ND	<.005	ND	ND
Aroclor 1248	1.05	0.84	ND	14.1	4.56	0.16	2,800	2.41	45.7	ND	54.2
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	<.008	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	<.008	ND	ND
	1		SB-148A-	l		SB-149A-			SB-150A-		
Sample ID	SB-148-4C	SB-148A-8		SB-149-2	SB-149A-8		SB-150-2	1010 150 A Q	I	100 161 20	ו כיסוניס ו
		10110	12	1 55 117 2	DD-1477X-0	12	315-130-2	SB-150A-8	12	SB-151-38	SB-152
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Date Collected	11/11/09	3/9/10	3/9/10	11/11/09	3/9/10	3/9/10	11/11/09	3/9/10	3/9/10	12/3/09	12/2/09
· ·	İ	}					j		3/9/10 11.5-12.0	12/3/09 37.5-38.0	12/2/09 35,5-36.0
Date Collected	11/11/09	3/9/10	3/9/10	11/11/09	3/9/10	3/9/10	11/11/09	3/9/10	3/9/10	12/3/09	12/2/09
Date Collected Depth Collected (ft bgs) Aroclor 1242	11/11/09 3,5-4,0	3/9/10 7.5-8.0	3/9/10 11.5-12.0	11/11/09 1.5-2.0	3/9/10 7.5-8.0	3/9/10 11.5-12.0	11/11/09 1.5-2.0	3/9/10 7.5-8.0	3/9/10 11.5-12.0	12/3/09 37.5-38.0	12/2/09 35,5-36.0
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248	11/11/09 3.5-4.0 ND 129	3/9/10 7.5-8.0 <.005 4.1	3/9/10 11.5-12.0 <.005 0.97	11/11/09 1,5-2.0 ND	3/9/10 7.5-8.0 ND	3/9/10 11.5-12.0 ND	11/11/09 1.5-2.0 ND	3/9/10 7.5-8.0 <.005	3/9/10 11.5-12.0 ND	12/3/09 37.5-38.0 ND	12/2/09 35,5-36.0 ND
Date Collected Depth Collected (ft bgs) Aroclor 1242	11/11/09 3,5-4.0 ND	3/9/10 7.5-8.0 <.005	3/9/10 11.5-12.0 <.005	11/11/09 1.5-2.0 ND 0.29	3/9/10 7.5-8.0 ND 290	3/9/10 11.5-12.0 ND 6.78	11/11/09 1.5-2.0 ND 0.57	3/9/10 7.5-8.0 <.005 48.6	3/9/10 11.5-12.0 ND 3.43	12/3/09 37.5-38.0 ND 0.04	12/2/09 35,5-36.0 ND 0.60
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	11/11/09 3.5-4.0 ND 129 ND ND	3/9/10 7.5-8.0 <.005 4.1 <.008 <.008	3/9/10 11.5-12.0 <.005 0.97 <.008 <.008	11/11/09 1,5-2.0 ND 0.29 ND ND	3/9/10 7.5-8.0 ND 290 ND ND	3/9/10 11.5-12.0 ND 6.78 ND ND	11/11/09 1.5-2.0 ND 0.57 ND ND	3/9/10 7.5-8.0 <.005 48.6 <.008 <.008	3/9/10 11.5-12.0 ND 3.43 ND ND	12/3/09 37.5-38.0 ND 0.04 ND ND	12/2/09 35,5-36.0 ND 0,60 ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID	11/11/09 3.5-4.0 ND 129 ND ND ND	3/9/10 7.5-8.0 <.005 4.1 <.008 <.008	3/9/10 11.5-12.0 <.005 0.97 <.008 <.008	11/11/09 1,5-2.0 ND 0.29 ND ND SB-157-3	3/9/10 7.5-8.0 ND 290 ND ND ND SB-157-8	3/9/10 11.5-12.0 ND 6.78 ND ND ND	11/11/09 1.5-2.0 ND 0.57 ND ND SB-158-3	3/9/10 7.5-8.0 <.005 48.6 <.008 <.008	3/9/10 11.5-12.0 ND 3.43 ND ND ND	12/3/09 37.5-38.0 ND 0.04 ND ND ND	12/2/09 35,5-36.0 ND 0.60 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected	11/11/09 3.5-4.0 ND 129 ND ND ND SB-153-32 12/3/09	3/9/10 7.5-8.0 <.005 4.1 <.008 <.008 <.008 SB-155-37 12/3/09	3/9/10 11.5-12.0 <.005 0.97 <.008 <.008 SB-156 12/2/09	11/11/09 1.5-2.0 ND 0.29 ND ND ND SB-157-3 12/16/09	3/9/10 7.5-8.0 ND 290 ND ND ND SB-157-8 12/16/09	3/9/10 11.5-12.0 ND 6.78 ND ND SB-157A 9/29/10	11/11/09 1.5-2.0 ND 0.57 ND ND SB-158-3 12/16/09	3/9/10 7.5-8.0 <.005 48.6 <.008 <.008 SB-158-8 12/16/09	3/9/10 11.5-12.0 ND 3.43 ND ND ND SB-159-3 12/16/09	12/3/09 37.5-38.0 ND 0.04 ND ND SB-159-8 12/16/09	12/2/09 35.5-36.0 ND 0.60 ND ND ND SB-160-2 12/16/09
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID	11/11/09 3.5-4.0 ND 129 ND ND ND	3/9/10 7.5-8.0 <.005 4.1 <.008 <.008	3/9/10 11.5-12.0 <.005 0.97 <.008 <.008	11/11/09 1,5-2.0 ND 0.29 ND ND SB-157-3	3/9/10 7.5-8.0 ND 290 ND ND ND SB-157-8	3/9/10 11.5-12.0 ND 6.78 ND ND ND	11/11/09 1.5-2.0 ND 0.57 ND ND SB-158-3	3/9/10 7.5-8.0 <.005 48.6 <.008 <.008	3/9/10 11.5-12.0 ND 3.43 ND ND ND	12/3/09 37.5-38.0 ND 0.04 ND ND ND	12/2/09 35,5-36.0 ND 0.60 ND ND ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected	11/11/09 3.5-4.0 ND 129 ND ND ND SB-153-32 12/3/09	3/9/10 7.5-8.0 <.005 4.1 <.008 <.008 <.008 SB-155-37 12/3/09	3/9/10 11.5-12.0 <.005 0.97 <.008 <.008 SB-156 12/2/09	11/11/09 1.5-2.0 ND 0.29 ND ND ND SB-157-3 12/16/09	3/9/10 7.5-8.0 ND 290 ND ND ND SB-157-8 12/16/09	3/9/10 11.5-12.0 ND 6.78 ND ND SB-157A 9/29/10	11/11/09 1.5-2.0 ND 0.57 ND ND SB-158-3 12/16/09 2.5-3.0	3/9/10 7.5-8.0 <.005 48.6 <.008 <.008 SB-158-8 12/16/09 7.5-8.0 ND	3/9/10 11.5-12.0 ND 3.43 ND ND SB-159-3 12/16/09 2.5-3.0 ND	12/3/09 37.5-38.0 ND 0.04 ND ND SB-159-8 12/16/09 7.5-8.0	12/2/09 35.5-36.0 ND 0.60 ND ND SB-160-2 12/16/09 1.5-2.0 ND
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs)	11/11/09 3.5-4.0 ND 129 ND ND ND SB-153-32 12/3/09 31.5-32.0	3/9/10 7.5-8.0 <.005 4.1 <.008 <.008 <.008 SB-155-37 12/3/09 36.5-37.0	3/9/10 11.5-12.0 <.005 0.97 <.008 <.008 SB-156 12/2/09 35.5-36.0	11/11/09 1.5-2.0 ND 0.29 ND ND SB-157-3 12/16/09 2.5-3.0	3/9/10 7.5-8.0 ND 290 ND ND SB-157-8 12/16/09 7.5-8.0	3/9/10 11.5-12.0 ND 6.78 ND ND SB-157A 9/29/10 7.5-8.0	11/11/09 1.5-2.0 ND 0.57 ND ND SB-158-3 12/16/09 2.5-3.0	3/9/10 7.5-8.0 <.005 48.6 <.008 <.008 SB-158-8 12/16/09 7.5-8.0	3/9/10 11.5-12.0 ND 3.43 ND ND SB-159-3 12/16/09 2.5-3.0	12/3/09 37.5-38.0 ND 0.04 ND ND SB-159-8 12/16/09 7.5-8.0	12/2/09 35.5-36.0 ND 0.60 ND ND ND SB-160-2 12/16/09 1.5-2.0
Date Collected Depth Collected (ft bgs) Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Sample ID Date Collected Depth Collected (ft bgs) Aroclor 1242	11/11/09 3.5-4.0 ND 129 ND ND ND SB-153-32 12/3/09 31.5-32.0 ND	3/9/10 7.5-8.0 <.005 4.1 <.008 <.008 SB-155-37 12/3/09 36.5-37.0 ND	3/9/10 11.5-12.0 <.005 0.97 <.008 <.008 SB-156 12/2/09 35.5-36.0 ND	11/11/09 1,5-2.0 ND 0.29 ND ND SB-157-3 12/16/09 2.5-3.0	3/9/10 7.5-8.0 ND 290 ND ND SB-157-8 12/16/09 7.5-8.0	3/9/10 11.5-12.0 ND 6.78 ND ND SB-157A 9/29/10 7.5-8.0	11/11/09 1.5-2.0 ND 0.57 ND ND SB-158-3 12/16/09 2.5-3.0	3/9/10 7.5-8.0 <.005 48.6 <.008 <.008 SB-158-8 12/16/09 7.5-8.0 ND	3/9/10 11.5-12.0 ND 3.43 ND ND SB-159-3 12/16/09 2.5-3.0 ND	12/3/09 37.5-38.0 ND 0.04 ND ND SB-159-8 12/16/09 7.5-8.0	12/2/09 35.5-36.0 ND 0.60 ND ND SB-160-2 12/16/09 1.5-2.0 ND

Table 1: Soil Analytical Results - PCBs
Former Unimatic Manufacturing Co. Facility
25 Sherwood Lane, Fairfield, New Jersey

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Sample ID	SB-160-8	SB-160- 16C	SB-161-2	SB-161-8	SB-162-2	SB-162-8	SB-163-8	SB-163-16	SB-163A- 24	SB-164-8	SB-164-16
Date Collected Depth Collected (ft bgs)	12/16/09 7.5-8.0	12/16/09 15.5-16,0	12/16/09 1.5-2.0	12/16/09 7.5-8.0	12/16/09 1.5-2.0	12/16/09 7.5-8.0	12/16/09 7.5-8.0	12/16/09 15.5-16.0	1/25/10 23.5-24.0	12/17/09 7.5-8.0	12/17/09 15.5-16.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	4.9	0.28	0.18	0.10	ND	ND	7.29	ND	ND	11.5	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND .	ND	ND	ND	ND	ND	ND	ND	ND
Sample ID	SB-164A-24	SB-165-20	SB-165-28	SB-166-20	SB-166-28	SB-167-15	SB-167-20	SB-167-25	SB-167-28	SB-168-16	SB-168-24
Date Collected	1/25/10	12/29/09	12/29/09	12/17/09	12/17/09	12/28/09	12/28/09	12/28/09	12/28/09	12/17/09	12/17/09
Depth Collected (ft bgs)	23.5-24.0	19.5-20.0	27.5-28.0	19.5-20.0	27.5-28.0	14.5-15.0	19.5-20.0	24.5-25.0	27.5-28.0	15.5-16.0	23.5-24.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	0.74	ND	ND	0.10	0.11	ND	0.40	0.14	ND	0.88
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Samula ID	OD 160 00	OD 160 00	GD 450 0			i	SB-171A-			SB-172A-	l
Sample ID	SB-169-20	SB-169-28	SB-170-8	SB-170-24	SB-171A-4	SB-171A-8	12	SB-172A-4	SB-172A-8	12	SB-173-4
Date Collected	12/28/09	12/28/09	1/25/10	1/25/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10
Depth Collected (ft bgs)	19.5-20.0	27.5-28.0	7.5-8.0	23.5-24.0	3.5-4.0	7.5-8.0	11.5-12.0	3.5-4.0	7.5-8.0	11.5-12.0	3.5-4.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.38	0.10	ND	0.04	3.63	2.88	12.6	0.74	1.2	20.8	2.76
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample ID	SB-173-8	SB-173-12	SB-174-4	SB-174-8	SB-174-12	SB-175-24	SB-176A	SB-176A	SB-999D	SB-176A	SB-177
Date Collected	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	4/21/10	9/29/10	9/29/10	9/29/10	9/29/10	9/29/10
Depth Collected (ft bgs)	7.5-8.0	11.5-12.0	3.5-4.0	7.5-8.0	11.5-12.0	23.5-24.0	0-0.5	2.5-3.0	2.5-3.0	7.5-8.0	2.5-3.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	47	29.2	0.20	1,180	0.53	ND	7.64	1.02	0.67	ND	0.07
Arocior 1248	4/ 1	29.2	0.20	1,100	0.55	ן ענאן	/.04	1.02	0.07	עאו	1 0.07
Aroclor 1248 Aroclor 1254 Aroclor 1260	ND	29.2 ND	ND	ND	ND	ND	7.04 ND	ND	ND	ND ND	ND

Table 1: Soil Analytical Results - PCBs
Former Unimatic Manufacturing Co. Facility
25 Sherwood Lane, Fairfield, New Jersey

		1		anti to t	(1777 04 4	GDE 90.4	CDE 00 4	CDE OGA	ODE OZA	ODE OOA	GDE AGA
Sample ID	SB-177	SB*40000*	SPE-8A-16	SPE-10A- 20	SPE-21A- 20	SPE-23A- 28	SPE-23A- 36C	SPE-27A- 26	SPE-27A- 32C	SPE-28A- 26	SPE-28A- 32C
Date Collected	9/29/10	12/28/09	10/15/09	10/21/09	10/21/09	10/22/09	10/22/09	10/21/09	10/21/09	10/21/09	10/21/09
Depth Collected (ft bgs)	7,5-8,0	31.5-32.0	15.5-16.0	19.5-20.0	19.5-20.0	27.5-28.0	35.5-36.0	25.5-26.0	31.5-32.0	25.5-26.0	31.5-32.0
Dopin concesse (11 ogs)	7,5-0,0	51.5 52.0	15.5 10.0	17.5 20.0	15.5 20.0	27.5 20.9	33.2 30.0	2010_2010_			
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	0.02	0.67	ND	0.59	0.25	12.5	64.4	6.09	0.24	321	60.5
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	SPE-28B-	SPE-31A-	SPE-33A-	SPE-34A-	SPE-42A=	SPE-42A	SPE-42A-	SPE-42B-		77.44.466	nn en e.
Sample ID	34	12	16	16	1437	14D	20C	36	PE-2A-8	PE-2A-16C	PE-2B-24
Date Collected	12/1/09	10/21/09	10/21/09	10/21/09	10/19/09	10/19/09	10/19/09	1/4/10	10/15/09	10/15/09	11/18/09
Depth Collected (ft bgs)	33.5-34.0	11.5-12.0	15,5-16.0	15.5-16.0	13.5-14.0	19.5-20.0	19.5-20.0	35.5-36.0	7.5-8.0	15.5-16.0	23.5-24.0
				> 77 >		3.753		N	3.00	\/D) III)
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	249	ND	0.24	ND	99.7	248	18.9	5.87	128	2.77	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND_	ND	ND	ND	ND	ND	ND	ND
Cample ID	PE-3A-8	PE-3A-16C	PE-3B-24	BE 1D 220	DE 19D 26	Pink-1A-28	Pink 1B 34	Septic	Septic	ST-1-10	ST-2-10
Sample ID	LE-3W-0	E-5A-10C	ŧ			ł		Tank-1	Tank-2	1	
Date Collected	10/15/09	10/15/09	12/30/09	12/30/09	11/2/09	10/21/09	12/30/09	11/2/09	12/8/09	12/17/09	12/17/09
Depth Collected (ft bgs)	7.5-8.0	15.5-16.0	23,5-24.0	31.5-32.0	35.5-36.0	27.5-28.0	33,5-34.0	8.0-8.5	8.0-8,5	9.5-10.0	9.5-10.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND
Aroclor 1248	64.1	1,29	55.2	0.84	0.32	216	101	0.004	0.19	0.052J	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	0.010	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND_	ND	0.009	ND	ND	ND
Sample ID	PIPE-1-3	PIPE-2-3	PIPE-3-3	PIPE-4-3	21-1-1	21-1-3	21-1A-8	21-2A-1	21-2A-3	21-3-1	21-3-3
Date Collected	12/17/09	12/17/09	12/17/09	12/17/09	1/27/10	1/27/10	6/4/10	6/4/10	6/4/10	6/4/10	6/4/10
Depth Collected (ft bgs)	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	0.5-1.0	2.5-3.0	7.5-8.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0
		T	·				T			I	
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1						1			1	1 3 773	1 2772
Aroclor 1248	ND	ND	ND	0.63	0.44	0.24	ND	ND	ND	ND	ND
Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND	ND ND	ND ND	0.63 ND	0.44 ND ND	0.24 ND ND	ND ND ND	ND ND 0.3	ND ND ND	ND ND 0.59	ND ND

Table 1: Soil Analytical Results - PCBs
Former Unimatic Manufacturing Co. Facility
25 Sherwood Lane, Fairfield, New Jersey

Sample ID Date Collected Depth Collected (ft bgs)	21-4-1 6/4/10 0.5-1.0	21-4-3 6/4/10 2.5-3.0	21-4A 9/29/10 7.5-8.0	21-5-1 6/4/10 0.5-1.0	21-5-12 6/4/10 11.5-12.0	21-6-1 6/4/10	21-7-1 7/1/10	21-7A 7/27/10	21-8-1 7/1/10	21-8A 7/27/10	21-8B 9/29/10 7.5-8.0
Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND 0.97 ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND ND	0.5-1.0 ND ND ND ND	0.5-1.0 ND 2.36 ND ND ND	2.5-3.0 ND 0.04 ND ND	0.5-1.0 ND ND ND 0.82	2.5-3.0 ND 0.22 ND ND	7.3-6.0 ND ND ND ND
Sample ID Date Collected Depth Collected (ft bgs)	21-9-1 7/1/10 0.5-1.0	21-10-1 7/1/10 0.5-1.0	21-11 7/27/10 0.5-1.0	8/24/10 2.5-3.0	8/24/10 2.5-3.0	21-11A 9/29/10 7.5-8.0	21-12 8/24/10 0.5-1.0	21-12 8/24/10 2.5-3.0	21-12A 9/29/10 7.5-8.0	21-13 7/27/10 0.5-1.0	21-14R 7/29/10 0.5-1.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	ND	0.21	ND	ND	ND	ND	ND	ND	0.09	ND
Aroclor 1254	ND	ND	ND	2.51	1.14	ND	0.48	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	0.52	0.25	ND	0.15	ND	ND	ND	1.17
Sample ID Date Collected Depth Collected (ft bgs)	21-14R	21-15	21-15	21-16	21-17	21-17	21-18	21-19	21-19	21-20	21-22
	8/24/10	8/24/10	8/24/10	8/24/10	8/24/10	8/24/10	8/24/10	8/24/10	9/29/10	9/29/10	9/29/10
	2.5-3.0	0.5-1.0	2,5-3.0	0.5-1.0	0.5-1.0	2.5-3.0	0.5-1.0	0.5-1.0	2.5-3.0	0-0.5	0-0.5
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	ND	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	0.06	0.35	ND	0.12	0.47	ND	0.38	0.39
Sample ID	21-22	21-23	21-24	21-26	21-27	21-28	21-29	21-29	21-30	21-32	21-33
Date Collected	9/29/10	9/29/10	9/29/10	9/29/10	9/29/10	9/29/10	9/29/10	9/29/10	9/29/10	9/29/10	9/29/10
Depth Collected (ft bgs)	2.5-3.0	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	2.5-3.0	0-0.5	0-0.5	0-0.5
Aroclor 1242	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND

Sample ID	30-1-4	30-1-16	130到1924	30 15 60000	30-2-24	30-2-26	30-2-28	30-2-34	30-3-24	30-4-16	30-4-24
Date Collected	1/27/10	1/27/10	1/27/10	1/27/10	1/26/10	1/26/10	1/26/10	1/26/10	1/27/10	1/27/10	1/27/10
Depth Collected (ft bgs)	3.5-4.0	15.5-16.0	31.5-32.0	31.5-32.0	23.5-24.0	25.5-26.0	27,5-28.0	33,5-34.0	23.5-24.0	15.5-16.0	23.5-24.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND	ND	ND	ND	ND	ND .	ND	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
								·			
Sample ID	30-4-32	30-5-28	30-5-34	30-6-28	30-6-34	EPA-1-1	EPA-1-3	EPA-1-8	EPA-1-12	EPA-2-1	EPA-2-3
Date Collected	1/27/10	1/26/10	1/26/10	1/26/10	1/26/10	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09
Depth Collected (ft bgs)	31.5-32.0	27.5-28.0	33.5-34.0	27.5-28.0	33.5-34.0	0,5-1.0	2.5-3.0	7.5-8.0	11.5-12.0	0.5-1.0	2.5-3.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND	ND	0.29	ND .	ND	0.10	0.88	0.19
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample ID	EPA-2-8	EPA-2-12	EPA-3-1	EPA-3-3	EPA-3-8	EPA-3-12	AST-2D- 16	TP-1A-16	JC-2-8	JC-4-16	JC-4-21
Date Collected	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	10/15/09	10/14/09	3/9/10	3/9/10	3/9/10
Depth Collected (ft bgs)	7.5-8.0	11.5-12.0	0.5-1.0	2.5-3.0	7.5-8.0	11.5-12.0	15.5-16.0	15.5-16.0	7.5-8.0	15.5-16.0	20.5-21.0
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	0.94	58	93.3	0.51	ND	ND	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results in milligrams per kilogram (mg/kg)

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Duplicate sample of the previously listed sample

Concentration above the NRDCSRS (1.0 mg/kg)

J indicates an estimated value.

^{*} indicates duplicate of sample not analyzed

Table 2: Soil Analytical Results - Non-PCB Compounds Former Unimatic Manufacturing Co. Facility

25 Sherwood Lane, Fairfield, New Jersey

Sample ID	Residential	Non-Residential	Impact to	SB-7A-6	SB-7-10C	SB-114-6	SB-115-6	SB-116-6	SB-117-6	SB-112-25	SB-99-2
Date Collected	Direct Contact	Direct Contact	Ground Water	10/12/00	10/13/09	10/13/09	10/13/09	10/13/09	10/12/00	10/13/09	10/14/09
	Soil Remediation	1	Soil Screening	10/13/09	i		1		10/13/09	1	
Depth Collected (ft bgs)	Standards	Standards	Levels	5.5-6.0	10.0-10.5	5.5-6.0	5.5-6.0	5.5-6.0	5.5-6.0	24.5-25.0	2.0-2.5
Volatie Organic Compound	<u>s</u>										
Ethylbenzene	7,800	110,000	8	NA	NA	NA	NA	NA	NA	ND	NA
Trichloroethene	7	20	0.007	NA	NA	NA	NA	NA	NA	0.038	NA
cis-1,2,Dichloroethene	230	560	0.2	NA	NA	NA	NA .	NA	NA	0.011	NA
Toluene	6,300	91,000	4	NA	NA	NA	NA	NA	NA	ND	NA
Naphthalene	6	i7	16	NA	NA	NA	NA	NA	NA	ND	NA
<i>TPHC</i>	1,000	1,000	1,000	58.5	261	<59.5	101	75.9	104	3,260	NA
Target Analyte List Metals	_		,,,,,,,				1			1	
Antimony	31	450	6	NA	NA	NA	NA	NA	NA	NA	< 0.46
Arsenic	19	19	19	NA	NA	NA	NA	NA	NA	NA	1.68
Beryllium	16	140	1	NA	NA	NA	NA	NA	NA	NA	< 0.02
Cadmium	78	78	1	NA	NA	NA.	NA	NA	NA	NA	0.19
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.3
Copper	3,100	45,000	7,300	NA	NA	NA	NA	NA	NA	NA	69.0
Lead	400	800	59	NA	NA	NA	NA	NA	NA	NA	20.9
Mercury	23	65	0.1	NA	NA	NA	NA	NA	NA	NA	0.76
Nickel	1,600	23,000	31	NA	NA	NA	NA	NA	NA	NA	17.9
Selenium	390	5,700	7	NA	NA	NA	NA	NA	NA	NA	< 0.58
Silver	390	5,700	1	NA	NA	NA	NA	NA	NA	NA	< 0.69
Thalium	5	79	3	NA	NA	NA	NA	NA	NA	NA	< 0.23
Zinc	23,000	110,000	600	NA	NA.	NA	NA	NA	NA	NA.	72.8
Base Neutral Compounds	ĺ	ĺ						:	İ		
Benzo[b]fluoranthene	0.6	2	2	NA	NA	NA	NA	NA	NA.	NA	0.068
Bis(2-Ethylhexyl)phthalate	35	140	790	NA	NA	NA	NA	NA	NA	NA	0.197
Benzo[a]pyrene	0.2	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	0.055
Chrysene	62	230	52	NA	NA	NA	NΛ	NA	NA.	NA	0.061
Fluoranthene	2,300	24,000	840	NA	NA.	NA	NA	NA	NA	NA	0.110
Phenanthrene	NA	300,000	NA	NA	NA	NA	NA	NA	NA	NA.	0.050
Pyrene	1,700	18,000	550	NA	NA	NA	NA	NA	NA	NA	0.091
Benzo[a]anthracene	0.6	2	0.5	NA	NA	NA	NA	NA	NA	NA	0.054
Indeno(1,2,3-cd)pyrene	0.6	2	0.2	NA	NA	NA	NΛ	NΛ	NA	NA	0.039
Benzo[g,h,i]perylene	380,000	30,000	NA	NA	NA	NA	NA	NA	NA	NA	0.053

Notes:

All concentrations in milligrams per kilogram (mg/kg)
< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected analytes are listed.

NA = Not Analyzed

ND = Not detected above the Method Detection Limit (MDL)

Table 2: Soil Analytical Results - Non-PCB Compounds
Former Unimatic Manufacturing Co. Facility

25 Sherwood Lane, Fairfield, New Jersey

Sample ID	Residential Direct Contact	Non-Residential Direct Contact	Impact to Ground Water	SB-100-2	SB-101-2	SB-102-2	SB-103-10	SB-36A-16	Pink-1A- 28	Sludge-1	Septic Tank-1
Date Collected	Soil Remediation	Soil Remediation	Soil Screening	10/14/09	10/14/09	10/14/09	10/14/09	10/15/09	10/20/09	10/28/09	10/28/09
Depth Collected (ft bgs)	Standards	Standards	Levels	2.0-2.5	2.0-2.5	2.0-2.5	9.5-10.0	15.5-16.0	27.5-28.0	7.0-7.5	8.0-8.5
Volatie Organic Compound	1										
Ethylbenzene	7,800	110,000	8	NA	NA	NA .	ND	ND	ND	NA	NA
Trichloroethene	7,500	20	0.007	NA	NA	NA	ND	ND	0.025	NA	NA
cis-1,2,Dichloroethene	230	560	0.2	NA	NA	NA	ND	ND	0.016	NA	NA
Toluene	6,300	91,000	4	NA	NA	NA	ND	ND	ND	NA	NA
Naphthalene	6	17	16	NA	NA	NA	ND	ND	ND	NA	NA
TPHC	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA
Target Analyte List Metals	1,000	1,000	1,000				ì				
Antimony	31	450	6	<0.48	<0.4	<0.54	NA	NA	< 0.58	<2.07	< 0.64
Arsenic	19	19	19	0.98	0.70	0.69	NA	NA	0.77	< 0.83	2.65
Beryllium	16	140	l i	<0.02	<0.02	< 0.03	NA	NA	< 0.03	<0.1	< 0.03
Cadmium	78	78	i :	<0.05	0.08	<0.05	NA	NA	< 0.06	0.24	<0.06
Chromium	NA	NA	NA	16.0	13.0	16.0	NA	NA	18.2	<1.04	27.1
Copper	3,100	45,000	7,300	39.1	62.0	20.3	NA	NA	167	10.5 ·	21.4
Lead	400	800	59	16.2	12.0	7.06	NA	NA	11.3	1.79	18.7
Mercury	23	65	0.1	0.39	0.08	0.07	NA	NA	0.03	0.97	0.13
Nickel	1,600	23,000	31	17.0	16.0	17.4	NA	NA	17.4	2.15	23.1
Selenium	390	5,700	7	<0.6	<0.5	< 0.68	NA	NA	<0.72	<2.59	<0.8
Silver			1 (<0.72	<0.6	<0.81	NA	NA	< 0.87	<3.11	< 0.96
Thalium	390	5,700 79	3	<0.24	<0.2	<0.27	NA	NA	<0.29	5.11	< 0.32
Zinc	5		600	38.5	51.0	29.8	NA	NA	42.8	44.4	52.8
Base Neutral Compounds	23,000	110,000	000	30.5] 31.0	22.0					
Benzo[b]fluoranthene	0.6	2	2	0.042	ND	ND	NA	NA	ND	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	790	0.061	0.133	0.054	NA	NA	ND	NA	NA
Benzo[a]pyrene	0.2	0.2	0.2	ND	ND	ND	NA	NA	ND	NA	NA
Chrysene	62	230	52	ND	ND	ND	NA	NA	ND	NA	NA
Fluoranthene	2,300	24,000	840	ND	ND	ND	NA	NA ·	ND	NA	NA
Phenanthrene	2,300 NA	300,000	NA	ND	ND	ND	NA	NA	ND	NA	NA
Pyrene	1,700	18,000	550	ND	ND	ND	NA	NA	ND	NA	NA
Benzo[a]anthracene		1	0.5	ND	ND	ND	NA	NA	ND	NA	NA
Indeno(1,2,3-cd)pyrene	0.6	2 2	0.3	ND	ND	ND	NA	NA	ND	NA	NA
	0.6		NA	ND	ND	ND	NA	NA	ND	NA	NA
Benzo[g,h,i]perylene	380,000	30,000	I NA	<u> </u>	1 112	1 1,2	1			L	L

Table 2: Soil Analytical Results - Non-PCB Compounds
Former Unimatic Manufacturing Co. Facility

25 Sherwood Lane, Fairfield, New Jersey

	,		,,		,				,	,	 -
Sample ID	Residential Direct Contact	Non-Residential Direct Contact	Impact to Ground Water	EPA-2-7	EPA-3-7.5	ST-1-10	ST-2-10	PIPE-1-3	PIPE-2-3	PIPE-3-3	PIPE-4-3
Date Collected	Soil Remediation		Soil Screening	11/16/09	11/16/09	12/17/09	12/17/09	12/17/09	12/17/09	12/17/09	12/17/09
Depth Collected (ft bgs)	Standards	Standards	Levels	6.5-7.0	7.0-7.5	9.5-10.0	9.5-10.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0
Volatie Organic Compounds	<u>s</u>										
Ethylbenzene	zene 7,800 110,000 8		8	ND	0.003	NA	NA	NA	NA	NA	NA
Trichloroethene	7	20	0.007	ND	ND	NA	NA	NA	NA	NA	NA
cis-1,2,Dichloroethene	230	560	0.2	ND	ND	NΛ	NA	NA	NA	NA	NA
Toluene	6,300	91,000	4	0.002	0.002	NA.	NA	NA	NA	NA	NA
Naphthalene	6	17	16	ND	0.021	NA	NA	NA	NA	NA	NA
<u>TPHC</u>	1,000	1,000	1,000	NA	NA	NA	NA	NA	NA	NA	NA
Target Analyte List Metals	,	,	,								
Antimony	31	450	6	NA	NA	0.51	<0.48	<0.55	<0.53	<0.53	<0.43
Arsenic	19	19	19	NA	NA	< 0.18	0.34	0.77	< 0.21	2.33	< 0.17
Beryllium	16	140	1	NA	NA	< 0.02	<0.02	< 0.03	< 0.03	<0.03	<0.02
Cadmium	78	78	1	NA	NA	< 0.05	<0.05	<0.06	<0.05	<0.05	<0.04
Chromium	NA	NA	NA	NA	NA	25.1	16.2	17.3	37.2	29.4	23.9
Copper	3,100	45,000	7,300	NA	NA	19.6	13.5	19.1	20.2	22.8	31.2
Lead	400	800	, 59	NA	NA	8.96	6.02	7.85	7.07	11.2	7.70
Mercury	23	65	0.1	NA -	NA	0.06	< 0.023	0.03	0.03	0.03	0.06
Nickel	1,600	23,000	31	NA	NA	16.9	16.7	18.1	22.1	25.5	18.5
Selenium	390	5,700	7	NA	NA	< 0.56	<0.60	<0.69	< 0.67	<0.66	<0.53
Silver	390	5,700	1	NA	NA	< 0.067	<0.72	< 0.82	<0.80	<0.79	<0.64
Thalium	5	79	3	NA	NA	<0.22	<0.24	<0.28	< 0.27	<0.26	<0.21
Zinc	23,000	110,000	600	NA	NA	31.7	30.4	34.5	42.0	56.4	43.2
Base Neutral Compounds	,	,									
Benzo[b]fluoranthene	0.6	2	2	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	790	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]pyrene	0.2	0.2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	62	230	52	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	840	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	ŇA	300,000	NA	NA	NA	NA	NA :	NA	NA	NA	NA
Pyrene	1,700	18,000	550	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]anthracene	0.6	2	0.5	NA	NA	NA	NA.	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.6	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[g,h,i]perylene	380,000	30,000	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3: DELINEATED SOIL SAMPLES Former Unimatic Manufacturing Corp. Facility 25 Sherwood Lane, Fairfield, New Jersey

	e, producer i Ainpele e		A region of the	the graph of the second		gazera bergistrafi	species to the species of species			Harding a hadicarding by a con-					
							tition 1 66.7	i (1755) Selphoral (1			1 (1) (1 1) (1) (1) (1) (1) (1) (e e e e e e e e e e e e e e e e e e e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 p. 1	
AOC-1 - Suspected 2,5	500-gallon Napl	ntha UST												·	
AST-2D	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SPE-8/8A	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
0D 20D04 D0D	15.5' to 16.0'	0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-29/29A/29B	31.5' to 32.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
AOC-4 - Empty Drun	Storage Area							,			,				
SB-99/99A	1.5' to 2.0'_	5.02	SB-162	1.5' to 2.0'	ND	FT-43	5.5' to 6.0'	0.132	SB-101/101A	1.5' to 2.0'	6.51	SB-135	1.5' to 2.0'	0.066	
30-77/77A	7.5' to 8.0'	0.83	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-100/100A/100B	1.5' to 2.0'	7.91	SB-133	1.5' to 2.0'	ND	FT-43	5.5' to 6.0'	0.13	SB-102	1.5' to 2.0'	0.93	SB-161	1.5' to 2.0'	0.18	
	7.5' to 8.0'	3.6	SB-162	7.5' to 8.0'	ND	SB-99/99A	7.5' to 8.0'	0.83	SB-164/164A	7.5' to 8.0'	ND	SB-161	7.5' to 8.0'	0.099	
	15.5' to 16.0'	2.61	SB-163/163A	15.5' to 16.0'	ND	SB-160	15.5' to 16.0'	0.28	SB-164/164A	15.5' to 16.0'	ND	SB-134/134A	15.5' to 16.0'	ND	
,	23.5' to 24.0'	3.2	SB-163/163A	23.5' to 24.0	ND	SB-175	23.5' to 24.0'	ND	SB-164/164A	23.5' to 24.0'	ND	SB-170	23.5' to 24.0'	0.04	
<i>,</i>	31.5' to 32.0'	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1.5' to 2.0'	6.5	SB-102	1.5' to 2.0'	0.93	FT-43	5.5' to 6.0'	0.13	Loading Dock	<u> </u>	L	SB-135	1.5' to 2.0'	0.066	
SB-101/101A	7.5' to 8.0'	0.065	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-102	1.5' to 2.0'	0.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-133	1.5' to 2.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1.5' to 2.0'	4.4	SB-162	1.5' to 2.0'	ND	SB-160	1.5' to 2.0'	0.51	SB-102	1.5' to 2.0'	0.93	SB-161	1.5' to 2.0'	0.18	
SB-134	7.5' to 8.0'	4.7	SB-162	7.5' to 8.0'	ND	SB-170	7.5' to 8.0'	ND	SB-164/164A	7.5' to 8.0'	ND	SB-161	7.5' to 8.0'	0.099	
	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-135	1.5' to 2.0'	0.066	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	1.5' to 2.0'	0.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-160	7.5' to 8.0'	4.6	SB-162	7.5' to 8.0'	ND	SB-159	7.5' to 8.0'	0.44	SB-99/99A	7.5' to 8.0'	0.83	SB-170	7.5' to 8.0'	ND	
	15.5' to 16.0'	0.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
A	1.5' to 2.0'	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-161	7.5' to 8.0'	0.099	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
0.7.4	1.5' to 2.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-162	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-163/163A	7.5' to 8.0'	7.29	SB-95	7.5' to 8.0'	0.79	SB-99/99A	7.5' to 8.0'	0.83	SB-164/164A	7.5' to 8.0'	ND	SB-162	7.5' to 8.0'	ND	
	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SB-164/164A	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

5599\75418.2, Unimatic ISRA closure\RI-RAW Report\Table 1 - Soil Delineations.xlsx

TABLE 3: DELINEATED SOIL SAMPLES Former Unimatic Manufacturing Corp. Facility 25 Sherwood Lane, Fairfield, New Jersey

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Folia Asia Rodhalls	विश्वक्रांक्ष विद्याला का विद्यूत		124-	Adaptes three of the	ng ye watan	Bre	Sampted Interestal The	Kilony Kilony	(BA)	કારાલાઇકા હાલભાગમાં કોન્દ્રો	(1996) (1996)	IB _X e	Figures incer of fig.))	वम्मान) १८१३
GD 150	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A_	N/A	N/A	N/A
SB-170	23.5' to 24.0'	0.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-175	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AOC-5B - Exterior PC	B Investigation	n: Enster	n and Northern Porti	ons of the Site							,		· · · · · ·	,
	27.5' to 28.0'	12.5	30-2	27.5' to 28.0'	ND	SB-26	27.5' to 28.0'	0.055	30-5	27.5' to 28.0'	ND	SB-167	27.5' to 28.0'	0.14
SPE-23A	35.5' to 36.0'	64.4	SB-145	35.5' to 36.0'	0.84	SB-118/118A	33.5' to 34.0'	ND	30-6	33.5' to 34.0'	ND	PE-18/18A/18B	35.5' to 36.0'	0.32
	Bedrock													
CDE 27A	25.5' to 26.0'	6.09	SB-125	25.5' to 26.0'	ND	PE-17/17A	24.5' to 25.0'	ND	30-2	25.5' to 26.0'	ND	SB-167	24.5' to 25.0'	0.403
SPE-27A	31.5' to 32.0'	0.24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ODE 00 DO + 100D	25.5 to 26.0'	321	SB-144	25.5' to 26.0'	0.56	PE-17/17A	24.5' to 25.0'	ND	30-2	25.5' to 26.0'	ND	SB-100/100A/100B	31.5' to 32.0'	0.18
	31.5 to 32.0'	61	PE-3/3A/3B	31.5' to 32.0'	0.84	SPE-27/27A	31.5' to 32.0'	0.24	**			SB-153	31.5' to 32.0'	0.47
SPE-28/28A/28B	33.5 to 34.0'	249	SB-145	35.5' to 36.0'	0.84	SB-56A/56B	34.5' to 35.0'	0.006	30-2	33.5 to 34.0'	ND	SB-146/146A	34.5' to 35.0'	0.16
	Bedrock													
	13.5' to 14.0'	99.7	•			SB-167	14.5' to 15.0	0.11	SB-109/109A	12.5' to 13.0'	0.91	SB-81/81A	13.0' to 13.5'	0.4
	19.5' to 20.0'	18.9		·		SB-167	19.5' to 20.0'	ND	PE-13/13A	20.0' to 20.5'	0.062	SB-78/78A/78B	19.5' to 20.0'	ND
SPE-42/42 A/42B	27.5' to 28.0'	1.03	SB-142	28.5' to 29.0'	ND	SB-167	27.5' to 28.0'	0.14	30-2	27.5' to 28.0'	ND	SB-75	27.5' to 28.0'	ND
	35.5' to 36.0'	5.9	SB-87/87A	35.5' to 36.0'	ND	SB-146/146A	34.5' to 35.0'	0.16	SB-145	35.5' to 36.0'	0.84	SB-153	35.5' to 36.0'	0.59
	Bedrock													
SPE-10/10A	19.5' to 20.0'	0.59	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CD 46 1/46D	34.5' to 35.0'	0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-56A/56B	Bedrock	 												
SPE-21	19.5' to 20.0'	0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-144	25.5' to 26.0'	0.56	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
an	23.5' to 24.0'	1.05	PE-2/2A/2B	23.5' to 24.0'	ND	SB-113	23.5' to 24.0'	ND	30-3	23.5' to 24.0'	ND	SB-81/81A	23.5' to 24.0'	0.13
SB-145	35.5' to 36.0'	0.84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.5' to 3.0'	7.59	***			SB-150	1.5' to 2.0'	0.57	30-1	3.5' to 4.0'	ND	SB-93	3.0' to 3.5'	0.86
SB-142	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	28.5' to 29.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15.5' to 16.0'	18.5	SB-111/111A/111B	15.5' to 16.0'	ND	SB-168	15.5' to 16.0'	ND	30-4	15.5' to 16.0'	ND	SB-105	15.5' to 16.0'	ND
	23.5' to 24.0'	12.8	SPE-18	22.5' to 23.0'	0.86	SB-168	23.5' to 24.0'	0.88	30-4	23.5' to 24.0'	ND	SB-113	23.5' to 24.0'	ND
SB-118/118A	31.5' to 32.0'	1.32	SPE-27/27A	31.5' to 32.0'	0.24	SB-27C	31.5' to 32.0'	1.09	30-4	31.5' to 32.0'	ND	SB-29B	31.5' to 32.0'	ND
	35.5' to 36.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bedrock	 		1		·								

			\$10 St (Query 3) 54			Mercin i Phi	et teor griff		these and that	annie in mary in C				
							, and a discount ().			deposit i Intervisit (1-3)			nongedige Fig. 1	
PE-18/18A/18B	35.5' to 36.0'	0.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FE-10/16AV10D	Bedrock							<u> </u>					<u> </u>	
	14.5' to 15.0'	0.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-167	19.5' to 20'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-107	24.5' to 25'	0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	27.5' to 28.0'	0.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	13.5' to 14.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	19.5' to 20.0'	14.1	SB-165	19.5' to 20.0'	0.74	SB-167	19.5' to 20.0'	ND	PE-13/13A	20.0' to 20.5'	0.062	SB-78/78A/78B	19.5' to 20.0'	ND
SB-146/146A	27.5' to 28.0'	4.56	SB-165	27.5' to 28.0'	ND	SB-167	27.5' to 28.0'	0.14	30-2	27.5' to 28.0'	ND	SB-70/70A/70B	27.5' to 28.0'	0.49
	34.5' to 35.0'	0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bedrock								•					
	31.5' to 32.0'	0.47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-153	Bedrock													
	15.5' to 16.0'	1.8	SB-40A	9.5' to 10.0'	ND	SB-129	15.5' to 16.0'	0.0653	30-1	15.5' to 16.0'	ND	SB-97/97A	15.5' to 16.0'	ND
PE-2/2A/2B	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15.5' to 16.0'	1.3	SB-39A	9.5' to 10.0'	ND	TP-1/1A	15.5' to 16.0'	ND	SB-129	15.5' to 16.0'	0.065	SB-97/97A	15.5' to 16.0'	ND
PE-3/3A/3B	23.5' to 24.0'	55.2	SB-39A	17.5' to 18.0'	ND	SB-113	23.5' to 24.0'	ND	PE-2/2A/2B	23.5' to 24.0'	ND	SB-143	23.5' to 24.0'	ND
	31.5' to 32.0'	0.084	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	23.5' to 24.0'	2.72	PE-2/2A/2B	23.5' to 24.0'	ND	SB-168	23.5' to 24.0'	0.88	30-2	23.5' to 24.0'	ND	PE-13/13A	24.5' to 25.0'	0.14
SB-43/43A	31.5' to 32.0'	4.09	PE-3/3A/3B	31.5' to 32.0'	0.84	SB-27C	31.5' to 32.0'	1.09	**			SPE-27/27A	31.5' to 32.0'	0.24
	Bedrock													
	27.5' to 28.0'	4.4	30-2	27.5' to 28.0'	ND	SB-26	27.5' to 28.0'	0.055	30-5	27.5' to 28.0'	ND	SB-167	27.5' to 28.0'	0.14
SB-120	35.5' to 36.0'	20.6	SB-145	35.5' to 36.0'	0.84	SB-118/118A	33.5' to 34.0'	ND	30-5	33.5' to 34.0'	ND	PE-18/18A/18B	35.5' to 36.0'	0.32
	Bedrock	-											1	
',, ,,, , 	27.5' to 28.0'	2.4	SB-144	25.5' to 26.0'	0.56	SB-26	27.5' to 28.0'	0.055	30-6	27.5' to 28.0'	ND	SB-167	27.5' to 28.0'	0,14
SB-121	35.5' to 36.0'	31.9	SB-87/87A	35.5' to 36.0'	ND	SB-56A/56B	34.5' to 35.0'	0.006	30-6	33.5' to 34.0'	ND	PE-18/18A/18B	35.5' to 36.0'	0.32
	Bedrock				<u> </u>									
	27.5' to 28.0'	17.5	30-2	27.5' to 28.0'	ND	SB-26	27.5' to 28.0'	0.055	30-6	27.5' to 28.0'	ND	SB-167	27.5' to 28.0'	0.14
SB-122	35.5' to 36.0'	10.9	SB-145	35.5' to 36.0'	0.84	SB-118/118A	33.5' to 34.0'	ND	30-6	33.5' to 34.0'	ND	PE-18/18A/18B	35.5' to 36.0'	0.32
	Bedrock	 		1 -2.2 12 23.0	- 	32 ,13.1.31		<u> </u>		<u> </u>			1	
	27.5' to 28.0'	12.9	SB-144	25.5' to 26.0'	0.56	SB-26	27.5' to 28.0'	0.055	30-6	27.5' to 28.0'	ND	SB-167	27.5' to 28.0'	0.14
SB-123	35.5' to 36.0'	18.7	SB-145	35.5' to 36.0'	0.84	SB-56A/56B	34.5' to 35.0'	0.006	30-6	33.5' to 34.0'	ND	SB-146/146A	34.5' to 35.0'	0.16
	Bedrock	† ····	35-1-73	25.5 10 50.0	0.04	DD-201920B	2 113 10 33.0	0.000		22.2 .0 2 1.0	- 1,12	32 113/113/1		1

	Section (Pgs)	hetitov	fterlanding f	g-spinog hi m	ց Ոլ	kingilyanisa mbaft	મુક્તમીમાં જ ઉંદે જ	uide	*kmikaniteilitä	վրումին ը Ու	-ent	Obtoman d 1861	AnaGha ta Aice a	riki H
Islacen e du dina	Scripted cotton al Ligh	(tiènus)	4h	Securities Autor Autorials		B	Samped dittered (159)	Titinieg 3 - B	950	i Sempual Antonyu iliyo	HT. THE	(t _n)	Soughtal	(Phany ecto
	25.5' to 26.0'	1.05	SB-87/87A	23.5' to 24.0'	1.48	SB-167	24.5' to 25.0'	0.403	PE-13/13A	24.5' to 25.0'	0.14	SB-41/41A/41B	23.5' to 24.0'	1.4
SB-124	35.5' to 36.0'	3.85	SB-89/89A	37.5' to 38.0'	1.2	PE-18/18A/18B	35.5' to 36.0'	0.32	SB-56A/56B	34.5' to 35.0'	0.006	SB-146/146A	34.5' to 35.0'	0.16
	Bedrock													
SB-125	25.5' to 26.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-126	15.5' to 16.0'	22.2	SB-39A	9.5' to 10.0'	ND	TP-1/1A	15.5' to 16.0'	ND	SB-129	15.5' to 16.0'	22.2	SB-97/97A	15.5' to 16.0'	ND
55-120	23.5' to 24.0'	13.5	SB-39A	17.5' to 18.0'	ND	PE-13/13A	24.5' to 25.0'	0.14	PE-2/2A/2B	23.5' to 24.0	ND	SB-143	23.5' to 24.0'	ND
	15.5' to 16.0'	18.9	SB-39A	9.5' to 10.0'	ND	SB-108/108A/108B	15.5' to 16.0'	ND	30-1	15.5' to 16.0'	ND	SB-97/97A	15.5' to 16.0'	ND
SB-127/127A	23.5' to 24.0'	60.8	SB-39A	17.5' to 18.0'	ND	PE-13/13A	24.5' to 25.0'	0.14	PE-2/2A/2B	23.5' to 24.0	ND	SB-143	23.5' to 24.0'	ND
	31.5' to 32.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15.5' to 16.0'	7.98	SB-39A	9.5' to 10.0'	ND	SB-108/108A/108B	15.5' to 16.0'	ND	30-1	15.5' to 16.0'	ND	SB-97/97A	15.5' to 16.0'	ND
SB-128/128A	23.5' to 24.0'	3.25	SB-39A	17.5' to 18.0'	ND	PE-13/13A	24.5' to 25.0'	0.14	PE-2/2A/2B	23.5' to 24.0	ND	SB-143	23.5' to 24.0'	ND
DD-120/120/1	31.5' to 32.0'	1.39	SB-39A	25.5' to 26.0'	ND	SPE-27/27A	31.5' to 32.0'	0.24	30-1	31.5' to 32.0'	ND	SB-98/98A	32.5' to 33.0	NĐ
	Bedrock													L
SB-129	15.5' to 16.0'	0.065	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-168	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35-100	23.5' to 24.0'	0.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-27C	31.5' to 32.0'	1.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-26A	27.5' to 28.0'	0.055	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3D-20A	31.5' to 32.0'	5,4	SPE-27/27A	31.5' to 32.0'	0.24	SB-27C	31.5' to 32.0'	1.09	SB-60C	31.5' to 32.0'	ND	SB-29B	31.5' to 32.0'	ND
SB-60C	31.5' to 32.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3.5' to 4.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-1	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	31.5' to 32.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-2	25.5' to 26.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-2	27.5' to 28.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	33.5' to 34.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-3	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-4	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	31.5' to 32.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20.6	27.5' to 28.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-5	33.5' to 34.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20.6	27.5' to 28.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-6	33.5' to 34.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	The Head of the	logger.	Fbg cosperinging	e descriptions as	; :	Hoosping is 1924	See A Page 18 19 19 19 19	110°	Floryman Co	physical or ba-	-1	Ethography (1.2) (1	nys en mai in Telips	<u>-</u>
				and the state of t	x 19	is.	Santal Santal		\$4	Participation of the second of	n na Simul	4.	gertiek 1907 – Stoffen J	i arkaji grapanis s
AOC-5C - Downward	d Sloping Wedge	of PCB-	Impacted Solls North	of the Bullding										
SB-41/41A/41B	36.5' to 37.0'	0.52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30-11717416	Bedrock		· · · · · · · · · · · · · · · · · · ·											
SB-69/69A	11.5' to 12.0'	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11.5' to 12.0'	3.6	SPE-31/31A	11.5' to 12.0'	ND	FT-25A	15.5' to 16.0'	ND	SB-84/84A/84B	11.5' to 12.0'	0.28	SB-131/131A	11.5' to 12.0'	0.64
SB-70/70A/70B	19.5' to 20.0'	4.2	SB-165	19.5' to 20.0'	0.74	SB-130	19.5' to 20.0'	0.104	SB-78/78A/78B	19.5' to 20.0'	ND	SB-169	19.5' to 20.0'	0.38
	27.5' to 28.0'	0.049	N/A	N/A	N/A	N/A	N/A_	N/A	N/A	N/A_	N/A	N/A	N/A	N/A
SB-78/78A/78B	7	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OD 02/02 A	35.5' to 36.0'	2.9	SB-86/86A/86B	35.5' to 36.0'	ND	SB-156	35.5' to 36.0'	0.57	SB-145	35.5' to 36.0'	0.84	SB-152	35.5' to 36.0'	0.597
SB-82/82A	Bedrock									<u></u>				
CD 02/02 4 /02D	35.5' to 36.0'	2.4	SB-151	35.5' to 36.0'	0.041	SB-156	35.5' to 36.0'	0.57	SB-87/87A	35.5' to 36.0'	ND	SB-152	35.5' to 36.0'	0.597
SB-83/83 A/83B	Bedrock													
GD 04/04 A /04D	37.5' to 38.0'	0.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-84/84A/84B	Bedrock													
SB-85/85A	35.5' to 36.0'	0.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A_
SB-86/86A/86B	35.5' to 36.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SD 07/07 4	35.5' to 36.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-87/87A	Bedrock							<u> </u>					ļ	
an acres 4	37.5' to 38.0'	1.2	SB-84/84A/84B	37.5' to 38.0'	0.36	PE-18/18A/18B	35.5' to 36.0'	0.32	SB-145	35.5' to 36.0'	0.84	SPE-41/41A/41B	36.5' to 37.0'	0.53
SB-89/89 A	Bedrock													
GD 02/02 4	7.5' to 8.0'	7.4	***			SB-101/101A	7.5' to 8.0'	0.65	SPE-14	7.5' to 8.0'	0.86	SB-95	7.5' to 8.0'	0.79
SB-92/92A	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPE-31A	11.5' to 12.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPE-33A	15.5' to 16.0'	0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SPE-34A	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11.5' to 12.0'	0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
on 121	19.5' to 20.0'	8.92	SB-165	19.5' to 20.0'	0.741	SB-169	19.5' to 20.0'	0.38	SB-78/78A/78B	19.5' to 20.0'	ND	SB-166	19.5' to 20.0'	ND
SB-131	27.5' to 28.0'	14.1	SB-165	27.5' to 28.0'	ND	SB-169	27.5' to 28.0'	0.0962	SB-70/70A/70B	27.5' to 28.0'	0.49	SB-166	27.5' to 28.0'	0.096
1	32.5' to 33.0'	2.08	SB-98/98A	32.5' to 33.0'	ND	SPE-27/27A	31.5' to 32.0'	0.24	SB-153	31.5' to 32.0'	0.47	SB-100/100A/100B	31.5' to 32.0'	0.18
OD 100	11.5' to 12.0'	9.86	SPE-31/31A	11.5' to 12.0'	ND	FT-25A	15.5' to 16.0'	ND	SB-69/69A	11.5' to 12.0'	1	SB-84/84A/84B	11.5' to 12.0'	0.28
SB-130	19.5' to 20.0'	0.104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
op isi	35.5' to 36'	0.041	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-151	Bedrock	T									<u> </u>		<u> </u>	<u> </u>

	े नां(फिलालेख)	findar	કુળા જાળાનો પથીલ	reture a suc a	e.O	ીમ જન્મના પ્રેની	ત્રું લીમાં જિલ્લો મ	awi	(ilanvondal) (i	Apatan Cala	Mijolji II	े विधानम्यास्या छोन	In Abhi (b) (lite u	X÷û T
softio candig out	emperior emistra tigo		¥ns	ં કરમોમંદિર પિલ્ફાન ભરતી (પૈક્ષુપ્ર) ડ	(tery Oppos	Pv.	न्द्रात क्रह्म विद्यालकारम् (वृक्ष्	#134 (Diggs)	- Brig	Sampleti Intro artigues,	Angae Angae	il its	Serophid Unidereal (US)	(maja) (140 ft)
SB-152	35.5' to 36' Bedrock	0.597	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-156	35.5' to 36' Bedrock	0.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-166	19.5' to 20 27.5' to 28.0'	ND 0.096	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
SB-169	19.5' to 20' 27.5' to 28.0'	0.38 0.096	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
SB-141	7.5' to 8.0'	6.29 4.51	SB-97	15.5' to 16.0'	ND	SB-41/41A/41B SB-41/41A/41B	7.5' to 8.0'	0.44 0.023	SPE-14 TP-1/1A	7.5' to 8.0'	0.86 ND	SB-95 SB-136/136A	7.5' to 8.0'	0.79 ND
SB-165	19.5' to 20 27.5' to 28.0'	0.74 ND	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
	2.5' to 3.0'	10.5	***	·	_N/A	SB-91 SB-164/164A	3.0' to 3.5' 7.5' to 8.0'	0.029 ND	SB-136/136A SB-95	2.5' to 3.0' 7.5' to 8.0'	40.6	SB-93 SB-88/88A	3.0' to 3.5' 8.0' to 8.5'	0.86 ND
SB-138/138A	15.5' to 16.0' 23.5' to 24.0'	2.91	JC-2 N/A	7.5' to 8.0' N/A	ND N/A	SB-164/164A N/A	15.5' to 16.0' N/A	ND	SB-138/138A N/A	15.5' to 16.0'	ND	SB-92/92A	15.5' to 16.0'	ND N/A
SB-155	36.5' to 37.0' Bedrock	5.05	SB-152	35.5' to 36.0'	0.597	SB-156	35.5' to 36.0'	N/A 0.57	SB-41/41A/41B	N/A 36.5' to 37.0'	N/A 0.52	N/A SB-100/100A/100B	N/A 31.5' to 32.0'	0.18
AOC-5D - Exterior PC		ı: Adjoin	ing JCMUA Property	I Y			I	L	l		<u> </u>		L	
SB-37A	9.5' to 10.0' 17.5' to 18.0' 25.5' to 26.0' 29.5' to 30.0'	1.1 2.04 1.13 0.67	SB-39A SB-39A SB-39A N/A	9.5' to 10.0' 17.5' to 18.0' 25.5' to 26.0' N/A	ND ND ND N/A	SB-144 Bedrock N/A	25.5' to 26.0 N/A	0.563 N/A	30-1 PE-2/2A/2B 30-1 N/A	15.5' to 16.0' 23.5' to 24.0' 31.5' to 32.0' N/A	ND ND ND	JC-2 SB-143 SB-98/98A N/A	7.5' to 8.0' 23.5' to 24.0' 32.5' to 33.0 N/A	ND ND ND N/A
SB-40A	9.5' to 10.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-39A	9.5' to 10.0' 17.5' to 18.0' 25.5' to 26.0'	ND ND ND	N/A N/A N/A	N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A
JC-2	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
JC-4	15.5' to 16.0' 20.5' to 21.0'	ND ND	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
AOC-5E - Former Ma														,
SB-105 SB-113	15.5' to 16.0'	ND 138	N/A SB-119	N/A 15.5' to 16.0'	N/A ND	N/A SB-105	N/A 15.5' to 16.0'	N/A ND	N/A SB-61A/61B	N/A 15.0' to 15.5'	N/A ND	N/A SB-46	N/A 15.0' to 15.5'	N/A ND
SB-119	23.5' to 24.0' 15.5' to 16.0'	ND ND	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A

	10000 1000	14000	Application of the	1 X 12 30 CC	:: <u>.</u>	High region 1,38	nation of the	priti :	Studersett F	Um yaqiri ili dar	13.	the equipment (fid)	history at 1920	
														ំ ខ្លួន (ម្ជុំផ្លែង)
					المأريين	and the second	ر. ميني <u>ده</u> المعاج	de esta	_ د د حوروا	il <u>i</u> usa				
AOC-5F - Former M	· · · · · · · · · · · · · · · · · · ·						1	T			- <u> </u>		1 37/4	N/A
	28.5' to 29.0'	0.724	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A
SB-94A	33.5' to 34.0'	0.044	N/A_	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A
	38.5' to 39.0'	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bedrock						254. 20		00.01	201-25	0.020	OD 126/1264	2.514- 2.01	40.6
SB-95	2.5' to 3.0'	719				SB-137	2.5' to 3.0'	2.3	SB-91	3.0' to 3.5'	0.029	SB-136/136A	2.5' to 3.0'	+
	7.5' to 8.0'	0.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.5' to 3.0'	19.8	***			SB-91	3.0' to 3.5'	0.029	SB-93	3.0' to 3.5'	0.86	SB-136/136A	2.5' to 3.0'	40.6
SB-96	7.5' to 8.0'	10	***	ļ		SB-139	7.5' to 8.0'	12.5	SPE-14	7.5' to 8.0'	0.86	SB-95	7.5' to 8.0'	0.79
	15.5' to 16.0'	2.4	JC-2	7.5' to 8.0'	ND	SB-92/92A	15.5' to 16.0'	ND	SB-140	15.5' to 16.0'	ND	SB-136/136A	+	ND
<u> </u>	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.5' to 3.0'	22.6	+++	.		SB-93	3.0' to 3.5'	0.86	Excavation		201	SB-136/136A	15.5' to 16.0'	ND
	7.5' to 8.0'	1.44	***			SB-88/88A	8.0' to 8.5'	ND	SPE-14	7.5' to 8.0'	0.86	SB-95	7.5' to 8.0'	0.79
SB-97	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	28.5' to 29.0'	0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
	2.5' to 3.0'	445	***			SB-142	2.5' to 3.0'	7.6	SB-143	2.5' to 3.0'	1.08	SB-136/136A .	2.5' to 3.0'	40.6
	7.5' to 8.0'	1.2	***		ļ	SB-88/88A	8.0' to 8.5'	ND	SPE-14	7.5' to 8.0'	0.86	SB-95	7.5' to 8.0'	0.79
SB-98/98A	23.5' to 24.0'	1.2	JC-4	15.5' to 16.0'	ND	SB-142	23.5' to 24.0'	ND	PE-2/2A/2B	23.5' to 24.0'	ND	SB-97/97A	23.5' to 24.0'	ND
3D-70/70A	28.5' to 29.0'	5.8	JC-4	20.5' to 21.0	ND	SB-142	28.5' to 29.0'	ND	SB-94/94A	28.5' to 29.0'	1.29	SB-97/97A	28.5' to 29.0'	0.13
	32.5' to 33.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Bedrock							ļ					 	
TP-1A	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A
,	2.5' to 3.0'	40.6	***		L	SB-162	1.5' to 2.0'	ND	SB-93	3.0' to 3.5'	0.86	++++		
SB-136/136A	7.5' to 8.0'	133	***			SB-162	7.5' to 8.0'	ND	SB-88/88A	8.0' to 8.5'	ND	***		
	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-137	2.5' to 3.0'	2.3	+++		<u>L</u>	SB-162	1.5' to 2.0'	ND	SB-93	3.0' to 3.5'	0.86	****	↓	
30-137	7.5' to 8.0'	11.6	***	<u></u>	<u> </u>	SB-162	7.5' to 8.0'	ND	SB-88/88A	8.0' to 8.5'	ND	****	<u> </u>	↓
	2.5' to 3.0'	7.3	***			SB-74	2.5' to 3.0'	ND	30-1	3.5' to 4.0'	ND_	SB-136/136A	2.5' to 3.0'	40.6
SB-139	7.5' to 8.0'	12.5	***	1	<u> </u>	SB-74	7.5' to 8.0'	ND	SB-88/88A	8.0' to 8.5'	ND	SB-95	7.5' to 8.0'	0.79
L	15.5' to 16.0'	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A_	N/A_
CD 140	7.5' to 8.0'	6.3	***			SB-74	7.5' to 8.0'	ND	SPE-14	7.5' to 8.0'	0.86	SB-95	7.5' to 8.0'	0.785
SB-140	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SD 142	2.5' to 3.0'	1.1	***			SB-150	1.5' to 2.0'	0.569	30-1	3.5' to 4.0'	ND	SB-93	3.0' to 3.5'	0.86
SB-143	23.5' to 24.0'	ŊD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A .	N/A

	कृष्यक्षाम् भूष	lieriou	(Blankian raj) djeli		ւդյայի	log ingredad	restion to the s	oudh	Hbi-kaani D	Augdion 6: The	G8KA ₂	(8th Bantis) De	threst on to the v	1k <i>09</i> 1
Olding and Bossling	Sumples Andriver (Age]PC-18] Sphytosi	Đọ	tans nelle dell tans nelle dell		, ? (j ,v	Sampled More of (ar))	e Lagan Lagan	:81	- a.o.gba: Luise-W (br.)	 	334v 6	ેમ તામુકી (વિદ્યુ) ક્રિયાના ઉલ્લો (વિદ્યુ)	(PCB) (Qquu))
AOC-7 - Former Floor	T			·										
FT-4C	15.5' to 16.0'	0.49	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-6A	19.5' to 20.0'	0.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-7A	7.5' to 8.0'	0.025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-10A	13.0' to 13.5'	0.088	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3.0' to 3.5'	5.6	FT-28	3.0 to 3.5'	ND	FT-29	3.0' to 3.5'	0.42	Excavation	N/A	N/A	FT-11	3.0' to 3.5'	ND
FT-19	8.0' to 8.5'	5.2	FT-1	8.0' to 8.5'	0.74	FT-29	8.0' to 8.5'	0.63	Excavation	N/A	N/A	FT-27	7.5' to 8.0'	0.12
	13.0' to 13.5'	3.7	FT-5	13.0' to 13.5'	0.97	N/A	N/A	N/A	AST-3*****	10.0' to 10.5'	ND	FT-11	13.0' to 13.5'	ND
	refusal													
FT-20	2.0' to 2.5'	5.3	FT-31	2.0' to 2.5'	ND	FT-24	3.0' to 3.5'	0.32	Excavation	N/A	N/A	FT-30	2.0' to 2.5'	1.4
	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8.0' to 8.5'	2130	Excavation	N/A	N/A	FT-20	7.5' to 8.0'	ND	Excavation	N/A	N/A	FT-42	7.5' to 8.0'	ND
FT-21	15.5' to 16.0'	1.9	FT-22	15.5' to 16.0'	0.11	FT-6/6A	13.0' to 13.5' 19.5' to 20.0'	2.0 0.29	FT-4	15.5' to 16.0'	0.49	FT-41	15.5' to 16.0'	0.35
	7.5' to 8.0'	1.4	FT-35	7.5' to 8.0'	0.64	FT-30	7.5' to 8.0'	0.09	Excavation	N/A	N/A	FT-33	7.5' to 8.0'	ND
FT-22	12.5' to 13.0'	22.9	FT-23	11.5' to 12.0'	0.15	FT-11	13.0' to 13.5'	ND	Excavation	N/A	N/A	EPA-6	11.5' to 12.0'	ND
11-22	13.0' to 13.5'	0.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	15.5' to 16.0'	0.011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-23	7.5' to 8.0'	651	FT-35	7.5' to 8.0'	0.64	Fr-20	7.5' to 8.0'	ND	FT-28	8.0' to 8.5'	ND	FT-33	7.5' to 8.0'	ND
11-23	11.5' to 12.0'	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-24	3.0' to 3.5'	0.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 (-24	9.0' to 9.5'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.0' to 2.5'	10.2	FT-25A	2.5' to 3.0'	0.41	FT-31	2.0' to 2.5'	ND	No soils*****	N/A	N/A	No soils****	N/A	N/A
FT-25	7.5' to 8.0'	254	Excavation	N/A	N/A	FT-25A	7.5' to 8.0'	ND	Excavation	N/A	N/A	SB-74****	2.5' to 3.0'	ND
	15.5' to 16.0'	0.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-26	7.5' to 8.0'	0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
FT-27	7.5' to 8.0'	0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-28	3.0' to 3.5'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F1-20	8.0' to 8.5'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
FT-29	3.0' to 3.5'	0.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A	N/A	N/A
F 1 • 4 7	8.0' to 8.5'	0.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A			N/A	N/A
TT 20	2.0' to 2.5'	1.41	FT-25A	2.5' to 3.0'	0.41	FT-12	2.5' to 3.0'	0.82			N/A	N/A	N/A	N/A
FT-30	7.5' to 8.0'	0.09	N/A	N/A	N/A	N/A			Excavation	N/A	N/A	FT-13	2.0' to 2.5'	ND
FT-31	2.0' to 2.5'	ND	N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A

	erangaliha	hosein - S	"Hillstod of Lyto-	to some	e - 18	May seems (1974)	iestinii reciji. 19)1+ti :	top remotest or	Sur doji si she	ring)	a file out et a fatel	median di dice	69)
	ignaples with the Mes						i ingata Paggar of Spyri				110 (d) 1110 (d)		् दल्लाणावरी स्थानकार अधिके	u(cus ugun))
·	7.5' to 8.0'	592	FT-35	7.5' to 8.0'	0.64	FT-42	7.5' to 8.0'	ND	Excavation	N/A	N/A	EPA-6	7.5' to 8.0'	ND
FT-32	15.5' to 16.0'	99.4	FT-22	15.5' to 16.0'	0.11	FT-21	15.5' to 16.0'	1.9	FT-4	15.5' to 16.0'	0.49	FT-41	15.5' to 16.0'	0.35
	23.5' to 24.0'	0.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-33	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7.5' to 8.0'	4.9	Excavation	N/A	N/A	FT-33	7.5' to 8.0'	ND	FT-35	7.5' to 8.0'	0.64	N/A	N/A	N/A
FT-34	15.5' to 16.0'	0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-35	7.5' to 8.0'	0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	14.3	FT-41	0.5' to 1.0'	0.094	FT-48	0.5' το 1.0'	0.76	FT-49	0.5' to 1.0'	2.87	No soils****	N/A	N/A
FT-36	2.5' to 3.0'	52.8	EPA-5	2.51 to 3.01	ND	FT-48	2.5' to 3.0'	ND	FT-12	2.0' to 2.5'	0.82	EPA-2	2.5' to 3.0'	0.19
	refusal													
	0.5' to 1.0'	1.02	No soils****	N/A	N/A	EPA-4	0.5' to 1.0'	ND	Excavation	N/A	N/A	No soils****	N/A	N/A
FT-37	2.5' to 3.0'	0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	5.3	FT-41	0.5' to 1.0'	0.094	EPA-4	0.5' to 1.0'	ND	Excavation	N/A	N/A	No soils*****	N/A	N/A
FT-38	2.5' to 3.0'	0.045	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PT 44	0.5' to 1.0'	848	FT-41	0.5' to 1.0'	0.094	FT-48	0.5' to 1.0'	0.76	Excavation	N/A	N/A	No soils*****	N/A	N/A
FT-39	2.5' to 3.0'	0.58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
mm 40	0.5' to 1.0'	3.7	No soils*****	N/A	N/A	EPA-4	0.5' to 1.0'	ND	Excavation	N/A	N/A	No soils*****	N/A	N/A
FT-40	2.5' to 3.0'	0.079	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	0.094	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.5' to 3.0'	286	No soils****	N/A	N/A	FT-39	2.5' to 3.0'	0.58	No soils*****	N/A	N/A	No soils*****	N/A	N/A
FT-41	7.5' to 8.0'	8.7	SB-74	2.5' to 3.0'	ND	EPA-6	7.5' to 8.0'	ND	Excavation	N/A	N/A	SB-158	7.5' to 8.0'	0.19
	15.5' to 16.0'	0.35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	165	No soils*****	N/A	N/A	EPA-4	0.5' to 1.0'	ND	No soils*****	N/A	N/A	No soils****	N/A	N/A
PT 42	2.5' to 3.0'	5.6	No soils****	N/A	N/A	FT-38	2.5' to 3.0'	0.045	FT-31	2.0' to 2.5'	ND	FT-40	2.5' to 3.0'	0.079
FT-42	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-43	5.5' to 6.0'	0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5.5' to 6.0'	38.3	SB-74	2.5' to 3.0'	ND	EPA-6	7.5' to 8.0'	ND	FT-35	7.5' to 8.0'	0.64	FT-43	5.5' to 6.0'	0.13
PT 44	7.5' to 8.0'	6.4	SB-74	2.5' to 3.0'	ND	EPA-6	7.5' to 8.0'	ND	FT-35	7.5' to 8.0'	0.64	SB-170	7.5' to 8.0'	ND
FT-44	15.5' to 16.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	23.5' to 24.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.5' to 3.0'	2530	No soils*****	N/A	N/A	FT-12	2.5' to 3.0'	0.82	FT-25A	2.5' to 3.0'	0.41	No soils*****	N/A	N/A
ET 46	7.5' to 8.0'	46.1	Excavation	N/A	N/A	FT-33	7.5' to 8.0'	ND	FT-25A	7.5' to 8.0'	ND	SB-101	7.5' to 8.0'	0.65
FT-45	15.5' to 16.0'	8.3	Excavation	N/A	N/A	FT-34	15.5' to 16.0'	0.34	FT-25	15.5' to 16.0'	0.14	FT-44	15.5' to 16.0'	ND
	23.5' to 24.0'	0.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	Vertical Del	nation	Horizontal delii	reation to the or	erth .	Horizontal Deli	neation to the se	outh	Horizontal D	elination to the	2851	Horizontal De	lination to the w	rest
Delinested Borchole	Sampled Interval (bg)	(ppm)	Ву	Sampled Interval (bg)	PCB (ppm)	Ву	Sampled Interval (bg)	(pbm) GCB	Ву	Sampled Interval (bg)	PCB (ppm)	By	Sampled Interval (bg)	PC B (ppm)
FT-46	23.5' to 24.0'	0.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-48	_0.5' to 1.0'	0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.5' to 3.0'	ИD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FT-49	0.5' to 1.0'	2.9	Excavation	N/A	N/A	EPA-4	0.5' to 1.0'	ND	No soils****	N/A	N/A	FT-48	0.5' to 1.0'	0.76
FT-51	2.5' to 3.0'	2.4	No soils****	N/A	N/A	FT-40	2.5' to 3.0'	0.079	No soils****	N/A	N/A	SB-158	2.5' to 3.0'	0.19
	0.5' to 1.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA-4	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
El X-4	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11.5' to 12.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	9.5	FT-41	0.5' to 1.0'	0.094	FT-48	0.5' to 1.0'	0.76	No soils****	N/A	N/A	FT-37	2.5' to 3.0'	0.19
EPA-5	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EFA-3	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11.5' to 12.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	2.1	FT-41	0.5' to 1.0'	0.094	FT-48	0.5' to 1.0'	0.76	No soils****	N/A	N/A	No soils****	N/A	N/A
EPA-6	2.5' to 3.0'	3.8	No soils****	N/A	N/A	FT-39	2.5' to 3.0'	0.58	FT-31	2.0' to 2.5'	ND	FT-40	2.5' to 3.0'	0.079
ErA-0	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11.5' to 12.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
AOC-9 - Former Leak	ing Drum Area						1,77	1071	10/1	1071	19/73	17/4	1 10/1	I G/A
	27.5' to 28.0'	216	SB-125	25.5' to 26.0'	ND	SB-26	27.5' to 28.0'	0.055	30-6	27.5' to 28.0'	ND	SB-167	27.5' to 28.0'	0.14
Pink-1/1A/1B	33.5' to 34.0'	101	SB-145	35.5' to 36.0'	0.843	SB-118/118A	33.5' to 34.0'	ND	30-6	33.5' to 34.0'	ND	PE-18/18A/18B	35.5' to 36.0'	0.32
	Bedrock							- 1,12		33.3 10 3 1.0		12 10,10,10,0	35.5 10 30.0	1-0:52
AOC 11 - Boreholes in	stalled west of	huilding				·	· 	·						J
·	0.5' to 1.0'	0.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA-1	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DI A-1	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11.5' to 12.0'	0.099	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EPA-2	2.5' to 3.0'	0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DI A-2	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11.5' to 12.0'	0.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	58	SB-161	1.5' to 2.0'	0.18	EPA-2	0.5' to 1.0'	0,88	EPA-6	7.5' to 8.0'	ND	21-1	0.5' to 1.0'	0.44
EPA-3	2.5' to 3.0'	93.3	SB-158	2.5' to 3.0'	0.36	SB-157	2.5' to 3.0'	0.72	FT-40	2.5' to 3.0'	0.079	21-1	2.5' to 3.0'	0.44
ניא ופ	7.5' to 8.0'	0.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11.5' to 12.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CD 1570574	2.5' to 3.0'	0.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-157/157A	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A N/A

:	्रतिसारमान्त्रीम	յուսնել	होत्री स्थापस्य हो सुन	nggyap da Payag) et	pin tang r Duli	organija dije d	agtic j	7.01.20104[[[2]	llingiar popu	910	stio panasatsa)	հոչուսալ մեր <u>նի</u> վ	
tşe jiməste üşitğas ifinit :	Tringed sign	Pej: qual	11 Have	Simple of Colors	्ता । व्यक्तिकार		Conguette der in Language Strong Gunger in	dhing :	(I)	्रिक क्षित्रम् । जन्म अर्थे अपूर्ण	tigna)		i injetit imenvildigi	
	2.5' to 3.0'	0.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-158	7.5' to 8.0'	0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
an 150	2.5' to 3.0'	7.9	SB-158	2.5' to 3.0'	0.36	SB-157	2.5' to 3.0'	0.72	FT-40	2.5' to 3.0'	0.079	21-2	2.5' to 3.0'	0.24
SB-159	7.5' to 8.0'	0.44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	7.64	SB-161	1.5' to 2.0'	0.08	EPA-2	0.5' to 1.0'	0.86	EPA-5	2.5' to 3.0'	ND	21-11A	7.5' to 8.0'	ND
SB-176	2,5' to 3.0'	1.02	SB-157	2.5' to 3.0'	0.72	SB-177	2.5' to 3.0'	0.07	EPA-5	7.5' to 8.0'	ND	21-15	2.5' to 3.0'	ND
	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
an	2.5' to 3.0'	0.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SB-177	7.5' to 8.0'	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	0.44	21-10	0' to 0.5'	ND	21-5	0.5' to 1.0'	ND	N/A	N/A	N/A	21-33	0' to 0.5'	0.08
21-1/1A	2.5' to 3.0'	0.24	21-3	2.5' to 3.0'	ND	21-7A	2.5' to 3.0'	0.043	N/A	N/A	N/A	21-2A	2.5' to 3.0'	ND
	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	0.3	21-9	0' to 0.5'	ND	21-13	0.5' to 1.0'	0.088	N/A	N/A	N/A	21-33	0' to 0.5'	0.08
21-2/2A	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	0.59	21-10	0' to 0.5'	ND	21-5	0.5' to 1.0'	ND	N/A	N/A	N/A	21-33	0' to 0.5'	0.08
21-3	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0,5' to 1.0'	0.97	21-10	0' to 0.5'	ND	21-31	0' to 0.5'	ND	N/A	N/A	N/A	21-13	0.5' to 1.0'	0.088
21-4	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-4A	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-5	11,5' to 12.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
· · · · · · · · · · · · · · · · · · ·	0.5' to 1.0'	2.38	21-9	0' to 0.5'	ND	21-5	0.5' to 1.0'	ND	21-4	0.5' to 1.0'	0.97	21-13	0.5' to 1.0'	0.088
21-7/7A	2.5' to 3.0'	0.043	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<u> </u>	0.5' to 1.0'	0.82	21-9	0' to 0.5'	ND	21-13	0.5' to 1.0'	0.088	N/A	N/A	N/A	21-33	0' to 0.5'	0.08
1 21-8/8A/8B	2,5' to 3.0'	0.22	*****	1		21-15	2.5' to 3.0'	ND	N/A	N/A	N/A	21-14R	2.5' to 3.0'	ND
	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-9	0' to 0.5'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-10	0' to 0.5'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	0.21	21-10	0' to 0.5'	ND	21-31	0' to 0.5'	ND	N/A	N/A	N/A	*****	N/A	N/A
21-11/11A	2.5' to 3.0'	3.03	21-4	2.5' to 3.0'	ND	21-12A	2.5' to 3.0'	ND	SB-176	2.5' to 3.0'	1.02	21-15	2.5' to 3.0'	ND
	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.5' to 1.0'	0.63	21-10	0' to 0.5'	ND	21-31	0' to 0.5'	ND	N/A	N/A	N/A	21-30	0' to 0.5'	0.11
21-12/12A	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7.5' to 8.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-13	0.5' to 1.0'	0.088	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	Vertical Del	nation	Borizontal delin	eation to the ne	orth	Horizontál Defii	ientian to the so	outh	Horizontal De	lination to the	east	Horizontal Del	ination to the w	vest
Delineated Borehole	Sampled Interval (bg)	PCB (ppm)	Ву	Sampled Interval (bg)	PCB (ppm)	Ву	Sampled Interval (bg)	PCB (ppin)	By	Sampled Interval (bg)	PCB (ppm)	By	Sampled Interval (bg)	PCB (ppm)
21-14R	0.5' to 1.0'	1.17	21-18	0.5' to 1.0'	0.11	21-16	0.5' to 1.0'	0.057	N/A	N/A	N/A	21-33	0' to 0.5'	0.08
21 1 11	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-15	0.5' to 1.0'	0.42	21-13	0.5' to 1.0'	0.088	21-30	0' to 0.5'	0.11	N/A	N/A	N/A	*****	N/A	N/A
21-15	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-16	0.5' to 1.0'	0.057	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A_	N/A	N/A	N/A
21-17	0.5' to 1.0'	0.35	*****	N/A	N/A	21-28	0' to 0.5'	0.09	N/A	N/A	N/A	21-33	0' to 0.5'	0.08
21-17	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-18	0.5' to 1.0'	0.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-19/19A	0.5' to 1.0'	0.47	*****	N/A	N/A	21-23	0' to 0.5'	ND	N/A	N/A	N/A	21-33	0' to 0.5'	0.08
21-19/19/	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-20	0' to 0.5'	0.38	*****	N/A	N/A	21-23	0' to 0.5'	ND	N/A	N/A	N/A	*****	N/A	N/A
21-20	*****	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21.22	0.5' to 1.0'	0.39	*****	N/A	N/A	*****	N/A	N/A	N/A	N/A	N/A	21-33	0' to 0.5'	0.08
21-22	2.5' to 3.0'	0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-23	0' to 0.5'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-24	0' to 0.5'	0.39	*****	N/A	N/A	*****	N/A	N/A	21-23	0' to 0.5'	ND	*****	N/A	N/A
21-24	*****	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21.26	0' to 0.5'	0.22	*****	N/A	N/A	*****	N/A	N/A	21-18	0.5' to 1.0'	0.11	*****	N/A	N/A
21-26	*****	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21.07	0' to 0.5'	0.32	*****	N/A	N/A	21-23	0' to 0.5'	ND	N/A	N/A	N/A	*****	N/A	N/A
21-27	*****	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	· N/A	N/A	N/A
21-28	0' to 0.5'	0.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21.20	0' to 0.5'	0.29	*****	N/A	N/A	21-28	0' to 0.5'	0.09	N/A	N/A	N/A	*****	N/A	N/A
21-29	2.5' to 3.0'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-30	0' to 0.5'	0.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-31	0' to 0.5'	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
21-33	0' to 0.5'	0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

bg = below grade

PCB = polychlorinated biphenyls

ND = Not detected above Method Detection Limit

N/A = Not applicable

Excavation = Soils at this elevation have been excavated in the direction indicated

- * Will collect post-excavation samples at these depths during remediation
- ** Interval is assumed contaminated (PCBs>50ppm) to the extent of the former pipeline
- *** North of property boundary
- **** West of property boundary
- ***** Elevation difference between building and exterior
- ****** Requesting variance on delineation requirement

Table 4: Groundwater PCB Analytical Results -Former Unimatic Manufacturing Co. Facility 25 Sherwood Lane, Fairfield, New Jersey

		_	- SHOX II G			ten derbej			
Well Name		MV	V-1		MW-2		M\	W-3	
Date Collected	7/3/02	11/3/04	12/1	.0/09	7/3/02	7/3/02	11/3/04	12/1	1/09
Depth to water(ft bgs)	20.85	20.45	20	.21	15.85	15.94	15.56	15	.28
Pump depth (ft bgs)	28.85	28.45	22.60	27.60	23.85	23.94	23.56	21.70	26.70
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND	22	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND
Well Name		MW-4		MW	/-4A	MW-4B		MW-5	
Date Collected	11/4/04	12/1	1/09	12/1	1/09	4/19/10	11/3/04	12/1	0/09
Depth to water(ft bgs)	15.75	15	.47	15	.20	14.11	15.94	15	.66
Pump depth (ft bgs)	> 23.75 🔔	∍17.50	>21.70	28.70	33.70	52.50	23.94	19.00	24.00

	MW-4		MW MW	/-4A	MW-4B		MW-5	
11/4/04	12/1	1/09	12/1	1/09	4/19/10	11/3/04	12/1	0/09
15.75	15	.47	15	.20	14.11	15.94	15	.66
😊 23.75 🕳	∍17.50	>21.70	28.70	33.70	52.50	23.94	19.00	24.00
ND	190	(260)	35	(37)	ND	ND	ND	ND
448	ND	ND	ND	ND	1.08	2.3	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
	15.75 > 23.75	15.75 15 23.75 17.50 ND 190 448 ND ND ND	11/4/04 12/11/09 15.75 15.47 >> 23.75 17.50 - >21.70 ND 190 260 448 ND ND ND ND ND ND	11/4/04 12/11/09 12/1 15.75 15.47 15 > 23.75 17.50 - 21.70 28.70 ND 190 260 35 448 ND ND ND ND ND ND ND ND	11/4/04 12/11/09 12/11/09 15.75 15.47 15.20 > 23.75 17.50 21.70 28.70 33.70 ND 190 260 35 37 448 ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND	11/4/04 12/11/09 12/11/09 4/19/10 15.75 15.47 15.20 14.11 > 23.75 17.50 21.70 28.70 33.70 52.50 ND 190 260 35 37 ND 448 ND ND ND ND 1.08 ND ND ND ND ND ND	11/4/04 12/11/09 12/11/09 4/19/10 11/3/04 15.75 15.47 15.20 14.11 15.94 > 23.75 21.70 28.70 33.70 52.50 23.94 ND 190 260 35 37 ND ND 448 ND ND ND ND 1.08 2.3 ND ND ND ND ND ND ND	11/4/04 12/11/09 12/11/09 4/19/10 11/3/04 12/1 15.75 15.47 15.20 14.11 15.94 15 > 23.75 17.50 21.70 28.70 33.70 52.50 23.94 19.00 ND 190 260 35 37 ND ND ND 448 ND ND ND ND ND ND ND ND ND ND ND ND ND ND ND

Well Name	MW-6		MW-7		MW-8		MW-9		MW-10	
Date Collected	11/4/04	12/1	1/09	12/1	0/09	12/1	12/10/09		12/11/09	
Depth to water(ft bgs)	13.94	13.64		7.27		6.82		11.27		12.90
Pump depth (ft bgs)	21.94	19.10	24.10	9.50	14.50	12.50	17.50	12.50	17.50	15.70
Aroclor 1242	ND	13	14	ND	ND	ND	ND	ND	ND	5.6
Aroclor 1248	26	ND	ND	1.9	1.9	1.5	1.4	0.74 J	0.99 J	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Well Name	MW-KB-1	MW-KB-2
Date Collected	4/19/10	4/19/10
Depth to water(ft bgs)	4.00	3.73
Pump depth (ft bgs)	7.00	7.00
Aroclor 1242	ND	ND
Aroclor 1248	ND	ND
Aroclor 1254	ND	ND
Aroclor 1260	ND	ND

Notes:

All concentrations presented in micrograms per liter (ug/l) ND - Not detected above the Method Detection Limit (MDL)

J = Estimated value





State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

JON S. CORZINE Governor

MARK N. MAURIELLO Acting Commissioner

Bureau of Industrial Site Remediation 401 East State Street P.O. Box 432 Trenton, NJ 08625-0432

MAR 1 7 2009

CERTIFIED MAIL/RRR

Lincoln Park, NJ 07035

06498181 60000180 2007 Ms. Kathy Smith Unimatic Manufacturing Corporation 17 Toms Point Lane

NOTICE OF VIOLATION

Name of Violator:

Unimatic Manufacturing Corporation (Unimatic)

Location:

25 Sherwood Lane, Fairfield, Essex County 07004

Identifying #:

99235

EA ID #:

PEA080001

ISRA Case #:

E20010335

Dear Ms. Smith,

You are hereby NOTIFIED that a compliance review of the report entitled Revised Remedial Investigation Workplan dated May 11, 2007 identified the following violations pursuant to the Industrial Site Recovery Act ("ISRA", N.J.S.A. 13:1K-6 et seq.), the Spill Compensation and Control Act ("Spill Act", N.J.S.A. 58:10-23.11) and the regulations promulgated there under, and the Remediation Agreement executed April 1, 2001.

Prior to the issuance of this Notice of Violation, the Department provided technical comments and requirements to Unimatic on November 9, 2004. Subsequently, Unimatic submitted Remedial Investigation Reports dated January 20 and 28, 2005, a Remedial Action Workplan dated March 3, 2005, a supplemental Remedial Investigation Workplan dated June 9, 2005 and a Second Supplemental Remedial Investigation Report dated September 12, 2005. Based on the Department's review of the aforementioned Workplan and Reports, a Notice of Deficiency was sent to Unimatic on January 3, 2007. On February 8 and 13, 2007, the Department granted Unimatic telephone conferences to discuss all outstanding issues in an effort to move the case forward, with the understanding that Unimatic would submit an acceptable response to the deficiencies identified in the Notice of Deficiency. On May 11, 2007, Unimatic submitted a Revised Remedial Investigation Workplan. On August 7, 2008, the Department sent draft comments, via e-mail, to Unimatic in follow-up to the Revised Remedial Investigation Workplan dated May 11, 2007. Subsequently, Unimatic submitted a

response dated September 8, 2008. Based on the Department's review of the response, Unimatic has failed to comply with the deficiencies in accordance with the Technical Requirements for Site Remediation N.J.A.C. 7:26E, as follows:

1. *Requirement: Pursuant to N.J.A.C. 7:26B, paragraph I.2 of the Remediation Agreement, "If NJDEP determines any submittal made under this section is inadequate or incomplete, the NJDEP shall provide Unimatic Manufacturing Corporation with written notification of each deficiency, and Unimatic Manufacturing Corporation shall revise and resubmit the required information within thirty (30) calendar days, or longer as authorized by the NJDEP, from receipt of such notification."

<u>Description of Noncompliance:</u> Failure to modify and re-submit a Revised Remedial Investigation Workplan which conforms to the Department's comments and the Technical Requirements for Site Remediation, N.J.A.C. 7:26E, pursuant to Paragraph I.2 of the Remediation Agreement.

2. *Requirement: Pursuant to N.J.A.C. 7:26E-3.9(f), the Site Investigation shall also satisfy the requirements of N.J.A.C. 7:26E-3.9(f)1-2 for any other potentially contaminated areas away from process areas not otherwise addressed pursuant to N.J.A.C. 7:26E-3.9(a)-(e).

<u>Description of Noncompliance:</u> Failure to properly conduct a Site Investigation of any Area of Concern not addressed pursuant to previous requirements.

Unimatic shall conduct a Site Investigation of the following Areas of Concern: 4 (Empty Drum Storage Area), 7 (Former Interior Trenches) and 8 (Septic Systems).

3. *Requirement: Pursuant to N.J.A.C. 7:26E-4.1(b), contaminated soil shall be delineated.

<u>Description of Noncompliance:</u> Failure to delineate the horizontal and vertical limits of contamination to the applicable unrestricted use remediation standard for all media. The delineation of contaminants in soils has not been completed.

a. In Area of Concern 5B (Exterior polychlorinated biphenyl (PCB) Investigation - Eastern and Northern Portions of the Site), Area of Concern 5C (Downward Sloping Wedge of PCB Impacted Soils North of the Building), Area of Concern 5D (Exterior PCB Soil Investigation-Adjoining Jersey City Municipal Utilities Authority Property), Area of Concern 5I (Outfall Pipe) and Area of Concern 6 (Fill Material), Unimatic proposes using 50 milligram per kilogram (mg/kg) as the applicable restricted use standard for horizontal and vertical delineation of PCB contamination within the site boundaries. The person responsible for conducting the remediation at the site shall determine if soil contamination has migrated off the property, at any depth, above the applicable unrestricted use standard. The applicable unrestricted use remediation standard for PCBs is 0.2-mg/kg.

b. In addition to the technical requirements that were deficient in the Notice of Deficiency dated January 3, 2007, Unimatic did not fully delineate PCBs in soil in Area of Concern 5G, Former North Wastewater Pipe – Northwest Portion.

Unimatic shall submit a proposal to fully delineate (horizontally and vertically) PCBs in soil, above and below the water table to the applicable remediation standard, pursuant to N.J.A.C. 7:26E-4.1(b).

4. *Requirement: Pursuant to N.J.A.C. 7:26E-4.3(a), the Remedial Investigation shall include an investigation of all soil which may contain contaminants above the applicable soil remediation standards.

<u>Description of Noncompliance:</u> Failure to conduct a Remedial Investigation of soil at a contaminated site.

In Area of Concern 5A, Building Interior Flooring: PCB and Volatile Organic Compound (VOC) Investigation Under Concrete Floor. Unimatic failed to propose or conduct the required vertical and horizontal delineation of the PCB-contaminated soils within the boundaries of this site to Residential Direct Contact Soil Cleanup Criteria of 0.2-mg/kg. If Unimatic chooses to remediate only those soils that have PCB levels greater than 100-mg/kg and to address the remaining contaminants via a soil stabilization method, then Unimatic shall first complete the required horizontal and vertical delineation of the PCBs at this site.

The Department will not assess a penalty against you for the violations marked above with an asterisk (*) if you correct them by the deadlines below:

- 1. Submit a Remedial Investigation Workplan which addresses this Notice of Violation and all of the deficiencies in the January 3, 2007 Notice of Deficiency within thirty (30) days from receipt of this notice.
- 2. (a) Conduct a remedial investigation which fully delineates the horizontal and vertical extent of contamination in accordance with the Technical Requirements for Site Remediation, N.J.A.C. 7:26E, and
- (b) Submit a Remedial Investigation Report and Remedial Action Workplan pursuant to the Technical Requirements for Site Remediation, N.J.A.C. 7:26E within one hundred twenty (120) days from receipt of this notice.

This NOV serves as notice that the Department, has determined that a violation has occurred. It does not constitute final agency action and may not be appealed or contested. The issuance of this Notice or compliance therewith does not preclude the State of New Jersey or any of its agencies from initiating formal administrative and/or judicial enforcement action (including assessment of penalties), with respect to the violations listed above or for any other violations. You may appeal or contest such formal actions. The above violations are subject to penalties of up to \$25,000.00 per day/offense in civil penalties as per the ISRA.

Unimatic PEA080001 - 99235 Page 4

If you have any questions regarding this matter please contact Gene P. Fowler, CPG, Case

Manager, at (609) 777-1947.

Mark J. Pedersen, Bureau Chief Bureau of Industrial Site Remediation

C: William Hanrahan, NJDEP / BGWPA Terry McAdams, NJDEP / BEERA Robert J. Bottoni, Unimatic Manufacturing Corp. William J. Friedman, Esq., WolfBlock, L.L.P. Benjamin-Alter, P.G., GZA GeoEnvironmental, Inc. Dean M. DeLuccia, Frameware, Inc. Denise Cafone, RMC, Office of the Clerk / Registrar, Township of Fairfield Cara Sileno, Health Department, Township of Fairfield Peter N. Tabbot, M.P.H., Health Officer, West Caldwell Health Dept. Michael Festa, Ph.D., CEHA Health Officer, Essex County Health Department Daniel Kraft, USEPA, Region II / Pesticides & Toxic Substances Branch James Haklar, Ph.D., USEPA, Region II / Pesticides & Toxic Substances Branch Thomas Porucznik, USEPA, Region II / Superfund / NJ Remedial Branch Michael Hejazi, Ph.D., U.S. Department of Labor / Occupational Safety and Health Administration



Area(s) of Concern, Receptor and Emergency Response	Impacted Media	Contaminants of Concern	Exposure Route	e Receptors		Current Status/Outcome
Tracking				Existing Potential		
Suspected 2,500- Gallon Naphtha Underground Storage Tank (UST)	Soils	ТРН, PCBs	None	None	None	In June 2001, boreholes SB-6, SB-7, SB-9, and SB-11 were installed along the suspected sidewalls of the UST. Petroleum contamination was encountered in borehole SB-7. UST not encountered. Soils excavated as part of AST removal in October 2001. In October 2009, 6 soil samples collected were analyzed for TPH, and 3 soil samples collected were analyzed for PCBs. No exceedances detected in any of the 9 soil samples.
2. Three 250-Gallon Naphtha Aboveground Storage Tanks (ASTs)	Soils	VOCs	None	None	None	ASTs removed in October 2001. Contaminated soils excavated. 4 post-excavation soil samples collected. All 4 soil samples meet regulatory standards. DEP approves NFI request in 1/3/07 letter.
3. Fuel Oil UST	Soils	ТРН	None	None	None	UST removed in October 2001. 4 post-excavation soil samples collected. All 4 soil samples meet regulatory standards. DEP approves NFI request in 1/3/07 letter.
4. Empty Drum Storage Area	Soils	VOCs, PCBs	None	None	None	Boreholes SB-1 and SB-2 installed in this AOC in June 2001. No contamination detected. DEP requested additional soil sampling in this AOC in its 1/3/07 letter. 4 soil samples collected in October 2009. No exceedances detected.
5A. Building Interior Flooring (PCB and VOC Investigation)	Soils	PCBs	None	None	None	Chip samples of concrete flooring collected in June 2005. PCB contamination detected in upper portion of concrete. Removal of impacted concrete recommended in 2010 RAWP. VOCs addressed as part of AOC 7 (see below).
5B. Exterior PCB Investigation – Eastern and Northern Portions of the Site	Soils	PCBs	None	None	None	Post-excavation soil samples SPE-15 through SPE-30 collected in Oct. and Nov., 2003 had acceptable PCB results. DEP requests vertical delineation to direct contact criteria in 1/3/07 letter. Delineation soil samples collected in October 2009. Samples either achieved vertical delineation, or remained contaminated to the top of bedrock.
5C. Downward Sloping Wedge of PCB Impacted Soils North of the Building	Soils	PCBs	None	None	None	Delineation soil sampling conducted in August 2003 identified this AOC. Vertical and horizontal delineation of the exceedances detected in August 2003 were attempted in soil sampling conducted from October to December 2009. Samples either achieved delineation, "bled" into neighboring AOCs, or remained contaminated to the top of bedrock.

Area(s) of Concern, Receptor and Emergency Response	Impacted Media	Contaminants of Concern	Exposure Route	Rece	eptors	Current Status/Outcome
Tracking				Existing	Potential	
5D. Exterior PCB Soil Investigation – Adjoining JCMUA Property	Soils	PCBs	None	None	None	4 soil samples were collected in this AOC in October 2002. One soil sample contained an exceedance of PCBs. Soils were excavated around the impacted soil sample in October 2003. Acceptable post-excavation sample results were obtained. A second round of investigation in this AOC was precipitated by the discovery of contaminated soils along the northern property boundary of the Site. 10 soil samples were collected in this AOC in March 2010. Additional PCB-impacted soils were identified. A Deed Notice is proposed for these soils.
5E. Former Main Wastewater Pipe Elbow	Soils	PCBs	None	None	None	The 1/3/07 DEP letter required soil sampling around SB-45, which was sampled in April 2002. Post-excavation soil samples were collected in this AOC in October 2003. DEP required vertical delineation of these post-excavation soil samples. 4 soil samples were collected in this AOC from October to December 2009. Delineation completed.
5F. Former Main Wastewater Pipe	Soils	PCBs	None	None	None	Soil sample SB-94 exceeded holding times when collected in September 2003. It was resampled in October 2009. 10 additional soil samples were collected in this AOC in October and November 2009 to delineate PCB exceedances in soil samples to the south of this AOC. PCB impacts were delineated by these soil samples.
5G. Former Northern Wastewater Pipe – Northwestern Portion	Soils	PCBs	None	None	None	DEP approved NFI request in 1/3/07 letter. Soil sampling was conducted in this area in Fall 2009 and is discussed under AOC 5C.
5H. VOC Investigation – Eastern Portion of the Site	Soils	VOCs	None	None	None	Elevated PID readings recorded during installation of SB-36 in April 2002. Did not test for VOCs due to lack of appropriate glassware. DEP's 1/3/07 letter required testing for VOCs at this location. Soil sample collected at requested location in October 2009. No targeted VOCs detected in the soil sample.
5I. Outfall Pipe	Soils	PCBs	None	None	None	Soil sample TP-1, collected in June 2001, contained elevated concentrations of PCBs. This area was excavated in December 2001, and an acceptable post-excavation soil sample was collected 5' from TP-1. The DEP required delineation sampling of TP-1 in its 1/3/07 letter. The additional sampling is addressed under AOC 5F, above.

Area(s) of Concern, Receptor and Emergency Response	Impacted Media	Contaminants of Concern	Exposure Route	Rec	eptors	Current Status/Outcome
Tracking				Existing	Potential	
6. Fill Material	Soils	PCBs	None	None	None	Soils above the main wastewater pipe were used as backfill during the December 2001 and October 2003 soil excavation activities. In October 2009 and January 2010, samples of the native backfill were collected and analyzed for PCBs. Many of these samples contained PCB above applicable criteria.
7. Former Interior Trenches	Soils	TPH, VOCs, PCBs	None	None	None	In October 2001, 4 soil samples were collected around interior floor trenches and analyzed for TPH. No exceedances were noted. 26 soil samples were collected between May and July 2003 for PCB and VOC analysis. Many samples exceeded applicable standards for PCBs. None of the 6 soil samples analyzed for VOCs contained exceedances of any targeted VOC. From October 2009 to February 2010, 82 soil samples were collected in this AOC and AOC-11 (which "bled" into this AOC.) Horizontal and vertical delineation of PCB-impacted soils were achieved.
8. Septic Systems	Soils	TPH, PCBs, VOCs, BNs	None	None	None	The Preliminary Assessment identified one and possibly two septic systems on the Site. In May 2003, 10 soil samples were collected around the perimeter of the suspected locations of the septic systems. The samples were analyzed for TPH and PCBs. The 3 soil samples with the highest TPH concentrations were also analyzed for VOCs and BNs. No exceedances were noted. DEP's 1/3/07 letter requested the unearthing of the septic tanks to confirm their location. In October 2009, excavation activities were conducted in the suspected septic tank areas. Two septic tanks were found to share a common wall. The tanks were cleaned, and soil samples were collected below and around the tanks, and along the drain lines. One soil sample contained PCBs at a concentration above their RDCSCS but below its NRDCSCS. The area will be placed under a Deed Notice.
9. Leaking Drum	Soils	PCBs	None	None	None	A soil sample collected during the Nov. 2003 excavation activities had a pink stain and an odor. Although the soils beneath this soil sample were excavated, the DEP requested vertical delineation for VOCs in its 1/3/07 letter. A vertical delineation soil sample was collected in October 2009 and analyzed for PP+40. It contained exceedances of PCBs and TCE. A deeper vertical delineation soil sample was collected in December 2009 and analyzed for PCBs and VOCs. PCBs exceedances were present in the sample, but no VOC exceedances were present. The soil sample was collected just above bedrock, completing vertical delineation of PCBs as well as VOCs.

Area(s) of Concern, Receptor and Emergency Response	Impacted Media	Contaminants of Concern	Exposure Route	Receptors		Current Status/Outcome
Tracking				Existing	Potential	
10. Groundwater	Groundwater	PCBs & VOCs	None	None	None	A groundwater grab sample (GW-1) collected in June 2001 was analyzed for VOCs and BNs. TCE was detected at a concentration of 19 ug/l; no other exceedances were detected. Groundwater grab samples GW-2, GW-3, and GW-4 were collected in April 2002 and analyzed for PCBs. PCB exceedances were detected at all three well points. In June 2002, permanent monitoring wells MW-1, MW-2, and MW-3 were installed at the Site. PCB exceedances were detected in MW-2, but not in MW-1 and MW-3. Groundwater flow direction was calculated to be almost nil, with a slight flow to the north. MW-2 was destroyed during the October 2003 soil excavation activities. In October 2004, monitoring wells MW-4, MW-5, and MW-6 were installed in areas where PCB-contaminated soils had been detected. PCB exceedances were detected in these three wells, but none again in MW-1 and MW-3. In November 2009, monitoring wells MW-7 through MW-10 were installed for horizontal delineation to the north, and monitoring well MW-4A was installed for vertical delineation of MW-4, which had the highest concentrations of PCBs detected in the Site groundwater. Groundwater samples from MW-4 and MW-4A were analyzed for VOCs and BNs as well as PCBs, as requested by DEP in its 1/3/07 letter. All existing monitoring wells were sampled in December 2009, and at two depth intervals, as requested by DEP in its 1/3/07 letter. PCB exceedances were detected in all wells except MW-1, MW-3, and MW-5. Exceedances of various chlorinated VOCs were detected in both MW-4 and MW-4A. Groundwater in the northern portion of the Site was found to flow steeply to the south. In March 2010, two water table monitoring wells were installed on a property to the north of the Site to confirm that PCBs had not migrated in this direction, which is the direction of regional groundwater flow. Groundwater samples collected from both wells in April 2010 did not contain detectable concentrations of PCBs. Monitoring well MW-4B was installed next to MW-4 in April 2010 to provide vertical delineation for the we

Area(s) of Concern, Receptor and Emergency Response	Impacted Media	Contaminants of Concern	Exposure Route	Receptors		Current Status/Outcome
Tracking				Existing	Potential	
11. USEPA-Requested Boreholes	Soils	PCBs	None	None	None	In November 2009, USEPA requested the installation of six boreholes, three inside and three outside the Site building, and the collection of 4 soil samples per borehole for PCB analysis. 3 of the 12 soil samples collected inside the building contained exceedances of PCBs. Delineation of these soil samples is described under AOC 7. 6 of the 12 soil samples collected along the western site boundary contained PCBs above residential standards, necessitating horizontal delineation on the adjoining 21 Sherwood property. From January to July 2010, 4 rounds of soil sampling were conducted on this adjoining property. Delineation is ongoing.

Contour Map Reporting Form – December 2009

1.	Did any surveyed well casing elevations change from the previous sampling event? Yes No \underline{X} . If yes, attach new "Well Certification - Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).
2.	Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes $\underline{\hspace{1cm}}$ No \underline{X} . If yes, identify these wells.
3.	Are there any monitor wells present at the site but omitted from the contour map? Yes $\underline{\hspace{1cm}}$ No \underline{X} . Unless the omission of the well(s) has been previously approved by the department, justify the omissions.
4.	Are there any monitor wells containing separate phase product during this measuring event? Yes $\underline{\hspace{1cm}}$ No $\underline{\hspace{1cm}}$ No $\underline{\hspace{1cm}}$ Were any of the monitor wells with separate phase product included in the ground water contour map? Yes $\underline{\hspace{1cm}}$ No $\underline{\hspace{1cm}}$ No $\underline{\hspace{1cm}}$ If yes, show the formula used to correct the water table elevation.
5.	Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes \underline{X} No If yes, discuss the reasons for the change.
	Gauging of newly installed water table monitoring wells MW-7, MW-8, MW-9, and MW-10 indicate that groundwater in the northern portion of the Site is flowing generally to the south rather than to the north, as previously calculated.
6.	Has ground water mounding and/or depressions been identified in the ground water contour map? Yes $\underline{\hspace{0.5cm}}$ No \underline{X} . Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence.
7.	Are all the wells used in the contour map screened in the same water-bearing zone? Yes $\underline{\mathbf{X}}$ No $\underline{}$. If no, justify inclusion of those wells.
8.	Were the ground water contours computer generated $\underline{}$, computer aided $\underline{}$, or hand-drawn $\underline{\mathbf{X}}$? If computer aided or generated, identify the interpolation method(s) used.

Contour Map Reporting Form – April 2010

1.	Did any surveyed well casing elevations change from the previous sampling event? Yes $\underline{\hspace{1cm}}$ No \underline{X} . If yes, attach new "Well Certification - Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).
2.	Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes $\underline{\hspace{1cm}}$ No \underline{X} . If yes, identify these wells.
3.	Are there any monitor wells present at the site but omitted from the contour map? Yes $\underline{\hspace{1cm}}$ No \underline{X} . Unless the omission of the well(s) has been previously approved by the department, justify the omissions.
4.	Are there any monitor wells containing separate phase product during this measuring event? Yes No X. Were any of the monitor wells with separate phase product included in the ground water contour map? Yes No If yes, show the formula used to correct the water table elevation.
5.	Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes X No If yes, discuss the reasons for the change.
	This gauging round shows a west-to-east groundwater flow direction from MW-8 to MW-9. North of MW-8, the groundwater flow direction reverts to the regional northerly direction, as determined by the newly installed monitoring well MW-KB-1.
6.	Has ground water mounding and/or depressions been identified in the ground water contour map? Yes $\underline{\mathbf{X}}$ No $\underline{}$. Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence.
	There appears to be mounting in the vicinity of MW-8, and a depression in the vicinity of MW-9. This area was filled in during the construction of the building addition in 1970. The unusual groundwater flow in this area may be influenced by heterogeneities in the fill that was emplaced in this area at that time.
7.	Are all the wells used in the contour map screened in the same water-bearing zone? Yes $\underline{\mathbf{X}}$ No $\underline{}$. If no, justify inclusion of those wells.
8.	Were the ground water contours computer generated $\underline{}$, computer aided $\underline{}$, or hand-drawn $\underline{\mathbf{X}}$? If computer aided or generated, identify the interpolation method(s) used.



New Jersey Department of Environmental Protection Site Remediation Program

PUBLIC NOTIFICATION AND OUTREACH

☐ Non-LSRP (Existing Cases) ☐ LSRP ☐ Subsurface Evaluator

Date Stamp

SECTION A. SITE LOCATION Site Name: Unimatic Manufacturing Co., Inc. List all AKAs: Street Address: 25 Sherwood Lane Municipality: Fairfield (Township, Borough or City) County: Essex Zip Code: 07004 Mailing Address if different than street address: 17 Toms Point Lane, Lincoln Park, NJ 07035 Program Interest (PI) Number(s): 99235		(For Department use only)
Street Address: 25 Sherwood Lane Municipality: Fairfield	1 '	
Street Address: 25 Sherwood Lane Municipality: Fairfield	-Site-Name: _Unimatic Manufacturing Co., Inc.	entre and of the entrepresentation of the second of the entrementation of the entrementa
Municipality: Fairfield (Township, Borough or City) County: Essex Zip Code: 07004 Mailing Address if different than street address: 17 Toms Point Lane, Lincoln Park, NJ 07035 Program Interest (PI) Number(s): 99235 Case Tracking Number(s): E20010335 Date trigger compliance with Section 30 of Site Remediation Reform Act PL: 06/01/2001 State Plane Coordinates for a central location at the site: Easting: 555914 Northing: 745056 Municipal Block(s) and Lot(s): Block # 2302 Lot # 8 Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # SECTION B. NOTIFICATION INFORMATION 1. Was public notification provided: Via sign? Yes No Via fact sheet? Yes No Via letter? Yes No If "Yes," in what other language was notification prepared? 3. Was notification of excess fill material conducted pursuant to N.J.A.C. 7:26E-1.4(k)? Yes No 4. Was notification conducted using an Alternative Plan pursuant to N.J.A.C. 7:26E-1.4(o) or (p)? Yes No 5. Did you provide an electronic copy of all required submittals? Yes No 6. Did you provide copies to the municipality and local health department? Yes No 6.	List all AKAs:	
County: Essex	Street Address: 25 Sherwood Lane	
Mailing Address if different than street address: 17 Toms Point Lane, Lincoln Park, NJ 07035 Program Interest (PI) Number(s): 99235	Municipality: Fairfield	(Township, Borough or City)
Program Interest (PI) Number(s): 99235	County: Essex	Zip Code: _07004
Date trigger compliance with Section 30 of Site Remediation Reform Act PL: State Plane Coordinates for a central location at the site: Easting: 555914 Municipal Block(s) and Lot(s): Block # 2302 Lot # 8 Block # Lot # L	Mailing Address if different than street address: 17 Toms Point	nt Lane, Lincoln Park, NJ 07035
State Plane Coordinates for a central location at the site: Easting: 555914 Northing: 745056 Municipal Block(s) and Lot(s): Block # 2302 Lot # 8 Block # Lot # Block # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # Lot # SECTION B. NOTIFICATION INFORMATION 1. Was public notification provided: Via sign?	Program Interest (PI) Number(s): 99235	Case Tracking Number(s): E20010335
Municipal Block(s) and Lot(s): Block # 2302 Lot # 8 Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # Block # Lot # SECTION B. NOTIFICATION INFORMATION 1. Was public notification provided: Via sign?	Date trigger compliance with Section 30 of Site Remediation Refo	eform Act PL: 06/01/2001
Block # Lot # SECTION B. NOTIFICATION INFORMATION 1. Was public notification provided: Via sign?	State Plane Coordinates for a central location at the site: Easting	ng: 555914 Northing: 745056
Block # Lot # SECTION B. NOTIFICATION INFORMATION 1. Was public notification provided: Via sign?	Municipal Block(s) and Lot(s): Block # 2302	Lot # 8
Block # Lot # Block # Lot # SECTION B. NOTIFICATION INFORMATION 1. Was public notification provided: Via sign?	Block # Lot # Block	Block # Lot #
Block # Lot # Block # Lot # SECTION B. NOTIFICATION INFORMATION 1. Was public notification provided: Via sign?	Block # Lot # Block	Block # Lot #
SECTION B. NOTIFICATION INFORMATION 1. Was public notification provided: Via sign?	Block # Lot # Block	Block # Lot #
1. Was public notification provided: Via sign? Yes No Via fact sheet? Yes No Via letter? Yes No Via newspaper? Yes No 2. Were materials produced in a language other than English?	Block # Lot # Block	Block # Lot #
Via sign?	SECTION B. NOTIFICATION INFORMATION	
Via letter? ☑ Yes ☐ No Via newspaper? ☑ Yes ☐ No 2. Were materials produced in a language other than English?	Was public notification provided:	
2. Were materials produced in a language other than English?		
If "Yes," in what other language was notification prepared? 3. Was notification of excess fill material conducted pursuant to N.J.A.C. 7:26E-1.4(k)? Yes No 4. Was notification conducted using an Alternative Plan pursuant to N.J.A.C. 7:26E-1.4(o) or (p)? Yes No 5. Did you provide an electronic copy of all required submittals? Yes No 6. Did you provide copies to the municipality and local health department? Yes No		
3. Was notification of excess fill material conducted pursuant to N.J.A.C. 7:26E-1.4(k)? ☐ Yes ☐ No 4. Was notification conducted using an Alternative Plan pursuant to N.J.A.C. 7:26E-1.4(o) or (p)? ☐ Yes ☐ No 5. Did you provide an electronic copy of all required submittals? ☐ No 6. Did you provide copies to the municipality and local health department? ☐ Yes ☐ No		·
4. Was notification conducted using an Alternative Plan pursuant to N.J.A.C. 7:26E-1.4(o) or (p)?		
5. Did you provide an electronic copy of all required submittals? No 6. Did you provide copies to the municipality and local health department? Yes No		• •
6. Did you provide copies to the municipality and local health department?	4. Was notification conducted using an Alternative Plan pursuant t	nt to N.J.A.C. 7:26E-1.4(o) or (p)? ☐ Yes
	5. Did you provide an electronic copy of all required submittals?	
7 Mar additional cuttons to the first transfer of transfer of		
7. Was additional public outreach conducted pursuant to N.J.A.C. 7:26E-1.4(q)?	7. Was additional public outreach conducted pursuant to N.J.A.C.	C. 7:26E-1.4(q)? ☐ Yes ⊠ No

	SON RESPONSIBLE FOR CONDUC							
Full Legal Name of Representative Fir	f the Person Responsible for Conduct st Name: Kathleen	ing the Remediation: Representative I	Unimatic Manufact _ast Name: Smith	turing Co., inc.				
Title:	Treusurer			· · ·				
Phone Number:	(973) 633-9268	Ext:	Fax:					
Mailing Address:	17 Toms Point Lane	,						
City/Town: Linco	oln Park	State: NJ	Zip Code:	07035				
Email Address:			and the second s					
	hall be signed by the person responsil Administrative Requirements for the							
I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.								
Signature:K	athleen a Anuth To	eas Date:	-14-2011					
Name/Title: Kath	leen Smith	No Chang	ges Since Last Subi	mittal 🗵				

	SECTION D. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT							
	LSRP ID Number: 509366	_	ř					
3	First Name: Benjamin		_ Last Name:	Alter		•		
	Phone Number: (973) 774-3309	Ext:		Fax:	(973) 774-3	3350		
	Mailing Address: 55 Lane Road, Suite 407							
	City/Town: Fairfield	_ State:	New Jersey		_ Zip Code:	07004		
	Email Address: benjamin.alter@gza.com							
-	This statement shall be signed by the LSRP who is and Section 30 b.2.	submitt	ing this notifica	tion in accorda	ance with SR	RA Section 16 d.		
	I certify that I am a Licensed Site Remediation Prof in New Jersey. As the Licensed Site Remediation F					o conduct business		
	[SELECT ONE OR BOTH OF THE FOLLOW	ING AS	APPLICABLE]:				
	☑ directly oversaw and supervised all of the i ☐ personally reviewed and accepted all of the				nerein.			
	I believe that the information contained herein, and	l includin	g all attached o	documents, is	true, accurate	e and complete.		
	It is my independent professional judgment and oping submission to the Department, conforms to, and is							
	My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.							
	I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.							
	LSRP Signature: Seym Utter			Date: <u>2//</u>	15/11	<u> </u>		
	LSRP Name/Title: Benjamin Alter/Senior Vice Pre	esident	,	No Changes	Since Last S	Submittal 🗵		
	Company Name: GZA GeoEnvironmental, Inc.							

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice New Jersey Department of Environmental Protection Site Remediation Program 401 East State Street, PO Box 434 Trenton, NJ 08625

New Jersey Department of Environmental Protection Site Remediation Program

RECEPTOR EVALUATION FORM

☐ Non-LSRP (Existing Cases) 区 LSRP ☐ Subsurface Evaluator	Date Stamp (For Department use only)
SECTION A. SITE NAME AND LOCATION	
Site Name: Unimatic Manufacturing Co., Inc.	
List all AKAs:	
Street Address: 25 Sherwood Lane	
Municipality: Fairfield (Township, Borough or City	")
County: Essex Zip Code: 07004	
Mailing Address if different than street address: 17 Toms Point Lane, Lincoln Park, NJ 07	7035
Program Interest (PI) Number(s): 99235 Case Tracking Number(s	e): E20010335
The purpose of this form is to document the existence of receptors and the actions taken to unless an unrestricted remedial action is completed before the due date of the initial Receinitial or interim Receptor Evaluation the Department acknowledges that the remedial investomplete. The Receptor Evaluation should be completed in accordance with requirements Requirements for Site Remediation and is an ongoing process as the extent of contamination Evaluation should be submitted within the Mandatory Timeframes. ☐ Initial Submission ☐ Interim Submission ☐ No Change (if no change, indicate last RE date and skip to Section G: 05/11/200	ptor Evaluation. At the time of the tigation may not be fully and timeframes in the Technical on is defined. The Receptor
SECTION B. ON SITE AND SURROUNDING PROPERTY USE	
Identify any sensitive populations/uses that are currently on-site or surrounding propert of the site boundary (check all that apply): On-site Off-site	y usage within 200 feet
None of the following	
Public or Private Schools grades K-12	
Child care centers	•
Other sensitive population use(s) Explain	:
If any of the above applies, attach a list of addresses, facility names, type of use, and a location relative to the site.	map depicting each
2. Current site uses (check all that apply): Industrial Residential Commercial Agri School or child care Government Park or recreational use Vacant Other	icultural
3. Planned future site uses and offsite use within 200 ft of site boundary (check all that ap ☐ Industrial ☐ Residential ☐ Commercial ☐ Agri ☐ School or child care ☐ Government ☐ Park or recreational use ☐ Vacant ☐ Other	ply): icultural
Provide a map depicting the location of the proposed changes in land use.	
☐ Initial Submission ☐ Interim Submission ☐ No Change (if no change, indicate last RE date and skip to Section G:)

Identify if any of the following exist at the site (check all that apply): ☐ Free product [N.J.A.C. 7:26E-1.8] ☐ Residual product [N.J.A.C. 7:26E-1.8]	
·	•
 Other high concentration source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos) 	
Explain	
 If this evaluation is submitted with a technical document that includes this information, proceed to Section D. attach-a brief summary of all currently available data and information to be included in the site investigation or investigation report. 	
☐ Initial Submission ☐ Interim Submission ☐ No Change (if no change, indicate last RE date and skip to Section G:)	
SECTION D. GROUND WATER USE	
1. The requirement for ground water sampling has been triggered. If "No," proceed to Section F	s 🗌 No
2. Ground water is contaminated above the Ground Water Remediation Standards [N.J.A.C.7:9C]	s 🗌 No
Or Awaiting laboratory data with the expected due date:	
If "Yes," provide the date that the laboratory data were available and contamination exists above the Ground \ Remediation Standards. Date	Vater
If "No," or awaiting laboratory data proceed to Section F.	
3. Identify if any of the following conditions exist based on the well search [N.J.A.C.7:26E-1.17(a)] (check all that ☐ Potable wells located within 1000 feet from the downgradient edge of the currently known extent of cont ☐ Potable well located 250 feet upgradient or 500 feet side gradient of the currently known extent of contain ☐ Ground water contamination is located within a wellhead protection area Tier 1 or Tier 2 (WHPA). Tier: Identify if Tier 1 ☐ or Tier 2 ☐.	mination.
Complete and attach the Well Search spreadsheet.	
5. Potable use wells have been identified in the well search and the area has been canvassed for additional ground water use (potable and irrigation wells, etc.).	s 🗆 No
6. Potable wells and non-potable use wells were identified and ☐ potable well and /or ☐ non-potable use well sampling has been conducted. ☐ Ye	s 🗌 No
7. Contamination identified above Ground Water Remediation Standards but not suspected to be from the site (if "Yes," provide justification)	s 🗆 No
8. Potable wells were sampled and results were above State or Federal Drinking Water Standard	s 🗌 No
Date Or Awaiting laboratory data with the expected due date	
If "Yes" to #8 for potable well contamination not attributable to background follow the IEC Guidance E at http://www.nj.gov/dep/srp/guidance/srra/iec_guidance_draft.pdf.	ocument
IEC was abated	s 🗌 No
Date NJDEP Case Manager	
9. Receptors abated as part of mitigation (provide a brief narrative description)	s 🗌 No
10. Non-potable use wells were sampled and results were above GWQS.	
Date Or Awaiting laboratory data and the expected due date:	
☐ Initial Submission ☐ Interim Submission	
☐ No Change (if no change, indicate last RE date and skip to Section G:)	
SECTION E. VAPOR INTRUSION (VI)	
Contaminants present in ground water exceed vapor intrusion ground water screening levels (see NJDEP Vapor Intrusion Guidance) that trigger a VI evaluation	s 🗌 No

		Or Awaiting laboratory data and the expected due date:	
		Provide the date that the laboratory data was available and confirmed contamination above the Vapor Intrusion t levels.	rigger
		If "No," or awaiting laboratory data, proceed to Section F.	
	2.	Identify and locate on scaled map any structures/sensitive populations that exist within the following distances frequency ground water contamination with concentrations above the Ground Water Screening Levels for Vapor Intrusion of specific threats (check all that apply):	om or
	Sincia here	☐ 30 feet of dissolved petroleum hydrocarbon contamination in ground water.	
-		100 feet of any free product or any non-petroleum dissolved volatile organic ground water contamination.	
ı		☐ No structures exist within the specified distances☐ Unsaturated zone contamination☐ Methanogenic conditions	
		☐ Landfills on or adjacent to site ☐ Elevated soil gas or indoor vapors	•
		☐ Elemental mercury ☐ Basement or sump contains contaminated ground water or	oroduct
ı		☐ Other	
	3.	A VI evaluation has been conducted of the structures to address threats identified \square Yes	☐ No
	4.	The vapor intrusion pathway is not a concern at or adjacent to the site (if "yes", attach justification)	☐ No
	5.	Contamination identified but not suspected to be from the site (if "Yes," attach justification)	☐ No
	6.	Indoor air sampling was conducted and results were above the Department's proposed vapor intrusion Rapid Action Levels	□No
		Or Awaiting laboratory data	
		Provide the date that the laboratory data was received and detected contamination above the proposed vapor in Rapid Action Levels.	trusion
		If "Yes" to #6 above, required actions for contamination follow the IEC Guidance Document at http://www.nj.gov/dep/srp/guidance/srra/iec_guidance_draft.pdf.	
		The IEC receptor engineering system response for receptor control was implemented for all identified structures	□ No
		Date NJDEP Case Manager	
	7.	Indoor air sampling was conducted and results were above the Department's Indoor Air Screening Levels but at or below the proposed vapor intrusion Rapid Action Levels	□ No
ı		Or Awaiting laboratory data	
		If "Yes" to #7 above, required actions are:	
		Vapor Concern Response Action Form notification of the exceedances of the data has been	
		completed (date) Yes	☐ No
ı		A plan to mitigate and monitor the exposure has been submitted (date)	□ No
ı	_	The mitigation response action report has been submitted (date) Yes	☐ No
	8.	The vapor intrusion investigation is being completed and stepping out as part of the site investigation or remedial investigation (if "No" attach justification)	☐ No
		☐ Initial Submission ☐ Interim Submission ☐ No Change (if no change, indicate last RE date and skip to Section G:)	
	SE	CTION F. ECOLOGICAL RECEPTORS	
	1.	Identify any of the following conditions that exist based on the investigations conducted to date (check all that apply):	
		The results of a baseline ecological evaluation [N.J.A.C.7:26E- 3.11] required that a remedial investigation of ecological receptors [N.J.A.C.7:26E-4.7] is conducted	□No
)	Provide the name(s) of any surface water body on or within 200 feet of the site	
1			

Free product or residual product is located within 100 feet from	m an ecological receptor Yes No
2. Available data indicates an impact on ecological receptor(s),	surface water or sediment Yes No
☐ Initial Submission ☐ Interim Submission ☐ No Change (if no change, indicate last RE date and skip	o to Section G:)
SECTION G. PERSON RESPONSIBLE FOR CONDUCTING TH	IE REMEDIATION INFORMATION AND CERTIFICATION
Full Legal Name of the Person Responsible for Conducting the R	emediation: Unimatic Manufacturing Co., Inc.
Representative First Name: Kathleen	Representative Last Name: Smith
Title: Yeasurer	
Phone Number: (973) 633-9268 Ext:	Fax:
Mailing Address: 17 Toms Point Lane	
City/Town: Lincoln Park S	tate: NJ Zip Code: 07035
Email Address: rbottonister@yahoo.com	
This certification shall be signed by the person responsible for coin accordance with Administrative Requirements for the Remedia	
I certify under penalty of law that I have personally examined and including all attached documents, and that based on my inquiry o the information, to the best of my knowledge, I believe that the su aware that there are significant civil penalties for knowingly submam committing a crime of the fourth degree if I make a written fals aware that if I knowingly direct or authorize the violation of any st	f those individuals immediately responsible for obtaining ibmitted information is true, accurate and complete. I am litting false, inaccurate or incomplete information and that I se statement which I do not believe to be true. I am also latute, I am personally liable for the penalties.
Signature: Kathleen Q. Smith Treas	uver Date: 2-14-2011
Name/Title: Kathleen Smith	No Changes Since Last Submittal

SECTION H. LICENSED SITE REMEDIATION PROFE	ESSION	AL INFORMAT	TION AN	D STA	TEMENT
LSRP ID Number: 509366		_			
First Name: Benjamin		_ Last Name:	Alter		
Phone Number: (973) 774-3309	Ext:			Fax:	(973) 774-3350
Mailing Address: 55 Lane Road, Suite 407					
City/Town: Fairfield	State:	New Jersey			Zip Code: 07004
Email Address: benjamin.alter@gza.com					
This statement shall be signed by the LSRP who is subr Section 30 b.2.	mitting t	his notification	in accord	dance	with SRRA Section 16 d. and
I certify that I am a Licensed Site Remediation Profession New Jersey. As the Licensed Site Remediation Profession					58:10C to conduct business in
[SELECT ONE OR BOTH OF THE FOLLOWING	AS APF	PLICABLE]:			
☑ directly oversaw and supervised all of the reference personally reviewed and accepted all of the reference.		.,		hereir	1.
I believe that the information contained herein, and inclu	ıding all	attached docu	ıments, is	s true,	accurate and complete.
It is my independent professional judgment and opinion submission to the Department, conforms to, and is cons					
My conduct and decisions in this matter were made upo knowledge and skill ordinarily exercised by licensed site accordance with N.J.S.A. 58:10C-16, in the State of New	remedi	ation professio	nals prac	cticing	in good standing, in
I am aware pursuant to N.J.S.A. 58:10C-17 that for purp representation or certification in any document or inform significant civil, administrative and criminal penalties, inc by imprisonment for conviction of a crime of the third de	nation su cluding l	ıbmitted to the	board or	Depa	rtment, etc., that there are
LSRP Signature: Series all te	·		Date:	2/13	stu
LSRP Name/Title: Benjamin Alter/Senior Vice Preside	nt		No Cha	nges \$	Since Last Submittal 🗵
Company Name: GZA GeoEnvironmental, Inc.				-	

Submit this form to the assigned case manager, municipal clerk and designate health department. If there is no assigned case manager, submit this form to:

Bureau of Case Assignment & Initial Notice New Jersey Department of Environmental Protection Site Remediation Program 401 East State Street, PO Box 434 Trenton, NJ 08625



New Jersey Department of Environmental ProtectionSite Remediation Program

REMEDIAL INVESTIGATION REPORT FORM

☐ Non-LSRP (Existing Cases) ☐ LSRP ☐ Subsurface Evaluator

Date Stamp

			<u>L</u>	(For Departmen	it use only)
SECTION A. SITE NAME AND LOCATION					· ·
Site Name: Unimatic Manufacturing Co., Inc.				der delete .g	designation of the transfer of the second of
List all AKAs:	And the second of the second of				
Street Address: 25 Sherwood Lane					
Municipality: Fairfield	(To	wnship, Bor	ough or Cit	v)	
County: Essex	Zip	Code: <u>070</u>	004		
Mailing Address if different than street address: 17 Toms Po	oint Lane, Line	coln Park, N	iJ 07035		
Program Interest (PI) Number(s): 99235	Cas	e Tracking I	Number(s):	E20010335	
Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2.2 or	r 2.3(b): 0 <u>6/</u> /	01/2001			
State Plane Coordinates for a central location at the site: Ea:	sting: 55591	14	N	lorthing: 74 <u>505</u>	56
Municipal Block(s) and Lot(s): Block # 2302		Lot #			
Block # Lot #	Block #			Lot #	
Block # Lot #	Block #			Lot #	
Block # Lot #	Block #			Lot #	
Block# Lot#	Block #		·-···	Lot #	
SECTION B. REQUIRED TECHNICAL SUBMITTALS					
		Included			Date of
	Not Applicable		Previously		Revised
Immediate Environmental Concern Report	Applicable	Subinission	Submitted	Submission	Submission
Immediate Response Action Plans	×				
Preliminary Assessment Report				01/16/2002	
Receptor Evaluation				10/29/2002	;
Site Investigation Report			X	02/28/2002	
Remedial Investigation/Remedial Action Work Plan					
Feasibility Study Report	X			·	
Response Action Outcome Report				ļ	
Permit Application				·	
SECTION C. SITE USE Current Site Use (check all that apply) Industrial Agricultural Residential Park or recreational use Commercial Vacant School or child care Government Other	⊠ Ind □ Re □ Co	I Future Site ndustrial esidential commercial chool or chile		nown (check al Park or recreat Vacant Government Future site use	itional use
SECTION D. PUBLIC FUNDS					
Pid the remediation utilize public funds?				🗌 Yes	i ⊠ No
f "Yes," check applicable: UST Grant UST Loa	an .			bursement Prog	
☐ HDSRF Grant ☐ HDSRF L	Loan	☐ Landfi		sement Progran	•
☐ Spill Fund ☐ Schools I	Development	r Authority		•	

SECTION E. S												_					
_											Section H2 of the ssment/Site Inve						
1	•			•					•				•	•	⊠ Y	res	□ No
SECTION F. S	ITE C	ONDI	TIONS	S								_					
Check each standards/cr			and h	nighes	t concer	ntra	tion of	f conta	ıminat	tion cu	rrently present	abo	ve ar	ıy appl	licable	;	
Soil in pp	m	G۷	V = G	round	Water	in p	pb .	SV	V.= S	urface	Water in ppb	= -	Sec	d = Se	dime	nt in	ppm -
	Soil ppm	GW ppb	SW ppb	Sed ppm			Soil ppm	1	SW ppb	Sed ppm			Soil ppm	GW ppb	SW ppb	Sed ppm	1
÷V0Cs,∜	X				<100].	Ŭ.				100-1,000			X		Ì	>1,000
*SVOCs					<100						100–1,000						>1,000
*PAHs					<10 : \			D .			√210 <u>−</u> 100						>100
*Metals					<100						100–1,000						>1,000
PCBs					<10						10=100	Y 基金	X	X			>100
*Pesticides					<1]					1-10						>10
Dioxin (ppb)					<1 ppb						1-10 ppb						>10 ppb
Chromium					<100]					100–1,000						>1,000
Mercury					<100				Ö		100–1,000						>1:000
Arsenic					<10						10–100						>100
(PHC)					<1,700				#12 50 f		1,700–5,100				1		>5,100
2. For any cont					ked abo	ve,	identi	fy the	comp	ound/	element with the	e hi	ghest	conce	ntratio	on ov	er its
applicable re	media	ation s	tanda	ırd:													
	oroto					—		احط حان									
 Were the lab criteria requi 	red fo	r the s	site?								ie remediation s			S/ 	🛛 Y	Yes	☐ No
4. Are any of th	ne follo	owing	condi	tions	currently	/ pro	esent1	? (che	ck all f	that a	oply)						
Groundwate										So	il:						
⊠ Contamin		-					•	uifer			On-site dischar				, soil c	off-site	Э
☐ Contamin ☑ Contamin								·r			Chromate Prod Munitions and e				ncerr		
☐ Contamin											Contaminated s						
☐ Multiple d										_	Historic pesticid		•		lic		
☐ Contamin☐ Co-mingle	_	-		_	-		te				Residual or free	; pr	oduct	•			
⊠ Co-mingle							on-sit	te and			Radionuclides Historic Fill						
off-site so											Soil contaminat	ion	due t	o natu	rally o	ccurr	ing
☐ Contamin	_	-		er disc	harging	to s	surfac	e wate	er:		background cor						
☐ Residual ☐ Radionuc) prod	uct														
	iiucs																

SECTION G. APPLICABLE REMEDIATION STANDARDS			•	
Indicate the Remediation Standards used for all compounds	(check all that apply)			
☑ Default (check all that apply below) ☑ Direct Contact ☑ Impact to Ground Water So	oil Screening Levels	☐ Ecological Scree	ening Leve	ls
☑ Alternate Remediation Standards for the Ingestion/Del	rmal Pathway			
☐ Alternate Remediation Standards for the Inhalation Pa	athway			
☐ Site Specific Standards for the Impact to Ground Wate ☐ Soil-Water Partitioning Equation ☐ SPLP				,,
☐ Ecological Remediation Goals		· ·		
What is the ground water classification for this site as per	•	l that apply)		
	Class II-A Class III-A			
	Class III-A			
SECTION H. BACKGROUND CONDITIONS	site been linked to on site			
Have all contaminants found in soil and ground water on of concern?			☐ Yes 【	⊠ No
2. Did the RI demonstrate via a background investigation, or			ational are	as, that:
a. all or any part of the ground water contamination is mig		5 72		-
N.J.A.C. 7:26E-3.7(g)?				□NA
b. soil contamination is naturally occurring per N.J.A.C. 7	.26E-3.10	∐ Yes	⊠ No [□ NA
SECTION I. ALTERNATIVE STANDARD / DEVIATIONS				
Alternative remediation standard If proposing an alternative remediation standard pursuant to Remediation Standard Application Form as an addendum. Deviation from regulations If the Licensed Site Remediation Professional has varied from	X			
remediation varied and the page(s) in the attached documen				
N.J.A.C. 7:26E- <u>4.1</u>	Page 22	•		
N.J.A.C. 7:26E- <u>4.1</u>	Page 3 <u>0</u>			
N.J.A.C. 7:26E- 6.1(b)(2)	_ Page 33			
SECTION J. HISTORIC FILL			_	
1. The presence of historic fill is supported by (check all that	t apply):			•
☐ Boring logs ☐ Test Pits ☐ Trenches ☐ No historic fill identified at the site. If none, skip to	Aerial Photos K. below.	☐ NJDEP Mappe	ed Areas	
How was the historic fill characterized pursuant to N.J.A.C Samples were collected outside areas potentially in Contaminant levels in Table 4.2 at N.J.A.C. 7:26E-	mpacted by on-site opera			•
 Are any other AOCs (i.e., location of discharge and any of that area) located within the defined boundaries of the his If "No," skip to K. below 			☐ Yes [□ No
Have the same contaminant type(s) (e.g., lead, arsenic, a as being present in the historic fill been sampled for as a co-located AOCs?	contaminant of concern	at these	☐ Yes [□ No
SECTION K. GROUND WATER TRIGGER				
Was a ground water investigation conducted at all AOCs investigation was triggered pursuant to N.J.A.C. 7:26E-4.		X Yes	П № Г	∃NA

Were any monitor wells installed in unconfined aquifers in which the water table is higher than the top of the well screen?		
	. 🗌 Yes	⊠ No
If "Yes," identify the affected wells		
2. If ground water in the bedrock aquifer is contaminated, were bedrock cores collected and/or were geophysical logging methods conducted to characterize the bedrock aquifer pursuant to N.J.A.C. 7:26E-4.4(g)5?	⊠ No	□NA
SECTION M. LABORATORY DATA		
Were all data submitted in the appropriate full and/or reduced formats according to the deliverables defined in N.J.A.C. 7:26E-2?	•	
2. Do all data submitted meet the quality assurance/quality control (QA/QC) requirements incorporated by reference in N.J.A.C. 7:26E-2 for:	5 7 ∨	
sampling analysis		□ No
•	🔼 Yes	∐ No
3. How was it determined that the data complied with the QA/QC requirements? ☑ Laboratory non-conformance summary/narrative ☐ Laboratory correspondence ☑ LSRP review ☐ Independent contractor review		
Other:	_ 	,
4. Has any data been qualified and used?		□ No
5. Has any data been rejected and used?		⊠ No
6. If clean fill has been brought onto the site, has it been analyzed?	🔀 Yes	☐ No
The clean fill documentation is provided in an earlier submittal to DED, as are the Dome	dial Mac	acuroc.
The clean fill documentation is provided in an earlier submittal to DEP, as are the Remelisted in Section N of this form.	edial Mea	asures
	edial Mea	asures
listed in Section N of this form. SECTION N. MISCELLANEOUS		
listed in Section N of this form.	. 🗆 Yes	
listed in Section N of this form. SECTION N. MISCELLANEOUS 1. Were any regulated USTs identified during the course of the RI that were not previously known?	. 🗆 Yes	
SECTION N. MISCELLANEOUS 1. Were any regulated USTs identified during the course of the RI that were not previously known? If "Yes," list tank size, contents and registration number(s). 2. If "Yes," to item M.1. above and if these USTs were Federally Regulated, was the source/cause	. 🗆 Yes	⊠ No
SECTION N. MISCELLANEOUS 1. Were any regulated USTs identified during the course of the RI that were not previously known?	. 🗆 Yes	⊠ No
SECTION N. MISCELLANEOUS 1. Were any regulated USTs identified during the course of the RI that were not previously known?	. □ Yes	⊠ No

SECTION O. PERSON RESPONSIBLE FOR C	ONDUCTING THE REMEDIA	ATION INFORMATION AND CERTIFICATION
Full Legal Name of the Person Responsible for 0	Conducting the Remediation:	Unimatic Manufacuting Co., Inc.
Representative First Name: Kathleen	Representative	Last Name: Smith
Title: Treuswer		
Phone Number: (973) 633-9268	Ext:	Fax:
Mailing Address: 17 Toms Point Lane		
City/Town: Lincoln Park	State: NJ	Zip Code: 07035
Email Address: rbottonister@yahoo.com		and the state of t
This certification shall be signed by the person re in accordance with Administrative Requirements		
I certify under penalty of law that I have personal all attached documents, and that based on my in information, to the best of my knowledge, I believe that there are significant civil penalties for knowing committing a crime of the fourth degree if I make that if I knowingly direct or authorize the violation.	quiry of those individuals imm ve that the submitted informat ngly submitting false, inaccura a written false statement whi n of any statute, I am personal	nediately responsible for obtaining the tion is true, accurate and complete. I am aware ate or incomplete information and that I am ich I do not believe to be true. I am also aware lly liable for the penalties.
Signature: <u>Kathleen as Smith</u>	Treas	Date: 2-19-2011
Name/Title: Kathleen Smith	N	No Changes Since Last Submittal ⊠

	SECTION P. LICENSED SITE REMEDIATION PR	OFESS	IONAL INFORMATION AND STATEMENT				
١	LSRP ID Number: 509366						
١	First Name: Benjamin		Last Name: Alter				
١	Phone Number: (973) 774-3309	Ext:	Fax: (973) 774-3350				
ĺ	Mailing Address: 55 Lane Road, Suite 407						
1	City/Town: Fairfield	State:	New Jersey Zip Code: 07004				
	Email Address: benjamin.alter@gza.com						
	This statement shall be signed by the LSRP who is and Section 30 b.2.	submitt	ing this notification in accordance with SRRA Section 16 d.				
	I certify that I am a Licensed Site Remediation Profin New Jersey. As the Licensed Site Remediation F		authorized pursuant to N.J.S.A. 58:10C to conduct business anal of record for this remediation, I:				
	[SELECT ONE OR BOTH OF THE FOLLOW	ING AS	APPLICABLE]:				
	☑ directly oversaw and supervised all of the r☐ personally reviewed and accepted all of the		· · · · · · · · · · · · · · · · · · ·				
١	I believe that the information contained herein, and	includin	g all attached documents, is true, accurate and complete.				
			t the remediation conducted at this site, as reflected in this ant with, the remediation requirements in N.J.S.A. 58:10C-14.				
	My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.						
	I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.						
I	LSRP Signature: Day Wille		Date:				
I	LSRP Name/Title: Benjamin/Alter/Senior Vice Pres	sident	No Changes Since Last Submittal ⊠				
I	Company Name: GZA GeoEnvironmental, Inc.	•					

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice New Jersey Department of Environmental Protection Site Remediation Program 401 East State Street, PO Box 434 Trenton, NJ 08625



New Jersey Department of Environmental Protection Site Remediation Program

ALTERNATIVE SOIL REMEDIATION STANDARD APPLICATION FORM

Date Stamp (For Department use only) NOTE: This form shall be completed for each contaminant for which a direct contact exposure pathway alternative soil remediation standard and/or site-specific impact to ground water exposure pathway soil remediation standard is being implemented at and/or requested for a site or area of concern. The form-shall be used regardless of whether Department pre-approval is required. Refer to the Remediation Standards, N.J.A.C. 7:26D-7.3 and 7.4 (http://www.ni.gov/dep/srp/regs/rs/rs_rule.pdf), and Section B1 of the instructions for this Application form. SECTION A. SITE NAME AND LOCATION Site Name: Unimatic Manufacturing Co., Inc. List all AKAs: Street Address: 25 Sherwood Lane Municipality: Fairfield _____ (Township, Borough or City) Zip Code: 07004 County: Essex Mailing Address if different than street address: 17 Toms Point Lane, Lincoln Park, NJ 07035 Program Interest (PI) Number(s): 99235 Case Tracking Number(s): E20010335 Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2.2 or 2.3(b): 06/01/2001 ____ Northing: 745056 State Plane Coordinates for a central location at the site: Easting: 555914 Municipal Block(s) and Lot(s): Block # 2302 ____ Lot # 8_ Block # _____ Lot # _____ Lot # _____ Lot # _____ Lot # _____ Lot # _____ Block # _____ Lot # ____ Block # Block # Lot # Block # Lot # Block # Lot # Block # SECTION B. PROPOSED DIRECT CONTACT EXPOSURE PATHWAY ALTERNATIVE SOIL REMEDIATION STANDARD AND/OR SITE-SPECIFIC IMPACT TO GROUND WATER EXPOSURE PATHWAY SOIL REMEDIATION STANDARD INFORMATION (Include additional pages as necessary) 1. Do any of the requested direct contact exposure pathway alternative soil remediation standards and/or site-specific impact to ground water exposure pathway soil remediation standards listed 2. Name and chemical abstract (CAS) number of contaminant(s) for which direct contact exposure pathway alternative soil remediation standard and/or site-specific impact to ground water exposure pathway soil remediation standard is/are being requested: Pre-Approval Chemical Name CAS Number Required? Polychlorinated Biphenyls 1336-36-3 XП

3.	Summary of contaminant(s) concentrations at remediation standard and/or site-specific impabeing requested:	the site for which the direct act to ground water exposure	e pathway soil re	emediation star	ndard is/are
	Chemical Name			ncentration Ra	inge
Pol	ychlorinated Biphenyls		non-detect to	2,530 mg/kg	
					·
4.	List the exposure pathway(s) for which the dir and/or site-specific impact to ground water ex ingestion-dermal; INH = inhalation; IGW = imp	posure pathway soil remedia	ation standard is	il remediation s/are being req	standard uested (ING =
	•			posure Pathwa	
	Chemical Name		ING	INH	IGW
Pol	ychlorinated Biphenyls			<u> </u>	
	•			. 🗆 .	
		·			
	pathway alternative soil remediation standard soil remediation standard (IGWSRS). Indicate IGW = impact to ground water) and the exposione standard is being proposed for a contamilist each on a separate line:	e both the exposure pathwa sure scenario (RES = reside	y (ING = ingesti ntial or NON = n	on-dermal; IN⊦ on-residential)	I = inhalation; If more than
		DCSRS/IGWSSL	Calcula	ated DCARS/IC	SWSRS
	Chemical Name	(mg/kg)	(mg/kg)	Pathway	Scenario
Pol	ychlorinated Biphenyls	0.2/1.0/50 mg/kg	43	Dir. contact	non-res
	The state of the s				
		}			
6.	Rationale and documentation to support each standard and/or site-specific impact to ground limited to the following (include additional pages)	water exposure pathway so	posure pathway oil remediation s	alternative soi	I remediation ding but not
	a. New chemical toxicity;				
	b. New risk assessment methodology or mo	dels: See attachi	ent to this	form.	
	c. Alternative land use planned for the site;				
	•		for models used	to douclas the	direct
	d. Site-specific conditions that support modification contact exposure pathway alternative soil remediation stands.	remediation standard and/o	or site-specific in	npact to ground	d water

	SECTION C. PERSON RESPONSIBLE FOR CONDUCTING THE REMED CERTIFICATION		
	Full Legal Name of the Person Responsible for Conducting the Remediation	: Unimatic M	anufacturing Co., Inc.
		e Last Name:	
	Title: Treasurer		
	Phone Number: (973) 633-9268 Ext:	Fax:	
	Mailing Address: 17 Toms Point Lane		
	City/Town: Lincoln Park State:NJ		Zip Code: 07035
1	Email Address: rbottonister@yahoo.com		
	This certification shall be signed by the person responsible for conducting the notification in accordance with Administrative Requirements for the Remedi 7:26C-1.5(a).	e remediation ation of Contar	who is submitting this minated Sites rule at N.J.A.C.
	I certify under penalty of law that I have personally examined and am familia including all attached documents, and that based on my inquiry of those indicate information, to the best of my knowledge, I believe that the submitted in aware that there are significant civil penalties for knowingly submitting false I am committing a crime of the fourth degree if I make a written false statem aware that if I knowingly direct or authorize the violation of any statute, I am	ividuals immed formation is tru inaccurate or ent which I do personally lial	diately responsible for obtaining ue, accurate and complete. I am incomplete information and that not believe to be true. I am also ble for the penalties.
			14-2011
	Name/Title: Kathleen Smith	No Changes	Since Last Submittal 🗌

SECTION D. LICENSED SITE REMEDIATION PRO	FESSIC	NAL INFORM	MATION AND S	TATEMENT			
LSRP ID Number: 509366							
First Name: Benjamin		Last Name:	Alter				
Phone Number: (973) 774-3309	_ Ext:		Fax:	(973) 774-3350			
Mailing Address: 55 Lane Road, Suite 407				•			
City/Town: Fairfield	_ State:	New Jersey		Zip Code: 07004			
Email Address: benjamin.alter@gza.com							
This statement shall be signed by the LSRP who is s Section 30 b.2.	übmittinç	g this notificati	on in accordan	ce with SRRA Section 16 d. and			
	I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:						
[SELECT ONE OR BOTH OF THE FOLLOWIN	IG AS AI	PPLICABLE]:	:				
☑ directly oversaw and supervised all of the re ☐ personally reviewed and accepted all of the		•		rein.			
I believe that the information contained herein, and in	ncluding	all attached de	ocuments, is tru	ie, accurate and complete.			
It is my independent professional judgment and opin submission to the Department, conforms to, and is c							
My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.							
I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.							
LSRP Signature: Deigh Ulter			Date: 2/	15/1)			
LSRP Name/Title: Benjamin Alter/Senior Vice Presid	lent		No Changes	Since Last Submittal 🗵			
Company Name: GZA GeoEnvironmental Inc			-				

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice New Jersey Department of Environmental Protection Site Remediation Program 401 East State Street, PO Box 434 Trenton, NJ 08625

ALTERNATE SOIL REMEDIATION STANDARD APPLICATION FORM RESPONSE TO QUESTION B6

Because PCBs are specifically regulated under the federal Toxic Substances Control Act (TSCA), there is dual jurisdiction over PCB cleanups by the USEPA and the NJDEP. Accordingly, PCB cleanup levels in New Jersey are established with reference to USEPA regulations at 40 CFR Part 761, as well. Those regulations base the appropriate PCB cleanup level in soil on the age of the PCB spill, the current and future use of the property, and the institutional and engineering controls that will be placed on the property. Section 761.61 provides cleanup and disposal options for "PCB remediation wastes," which are wastes containing PCBs from a spill, release, or other unauthorized disposal that occurred prior to April 18, 1978. In addition, the USEPA regulatory program allows the establishment of site-specific, risk-based remediation standards to be used, if demonstrated to be justified through a risk-based assessment.

As documented in GZA's Preliminary Assessment report, Unimatic began to utilize floor trenches and the northern wastewater discharge pipe to dispose of its production wastewater in 1970. Unbeknownst to those operating the Unimatic facility, this wastewater carried PCB-laden lubricants and possibly PCB-laden hydraulic oils used in the die casting process. The discharge pipe leaked, releasing PCBs to the subsurface. There is also evidence of significant historical surface spillage. PCB production was phased out in the United States prior to the production ban date of July 1, 1979 established under TSCA. We believe that PCB use ceased at the Unimatic facility when PCBs were no longer being added to petroleum products, which was probably soon after April 18, 1978, when PCB-containing products were no longer available for purchase.

Because of the time period when PCB releases occurred at the Unimatic Site, the PCB-contaminated soils are classified as PCB remediation waste. Pursuant to 40 CFR §761.50(b)(3), the cleanup and disposal of PCB remediation waste is regulated under 40 CFR 761.61.

GZA prepared a Risk Assessment Report in accordance with the USEPA Risk Assessment Guidance for Superfund (RAGS). The Assessment was designed to evaluate the potential health effects associated with the Site-related chemicals, and provide quantitative toxicity estimates that would provide an acceptable human health risk for each exposure scenario at the Site. The Risk Assessment Report establishes the following regarding risks posed to human health by the PCBs:

- PCB-contaminated soils more than two feet below ground surface do not pose a risk to human health, meaning these soils can be left in place as per 40 CFR 761.61;
- PCB-contaminated soils less than two feet below ground surface but beneath the building footprint do not pose an unacceptable risk to human health;
- Soils less than two feet below the ground surface on the exterior portions of the property with total PCB concentrations less than 43 mg/kg pose no significant current risk to human health;
- Exterior soils within two feet of the ground surface that contain total PCBs at a concentration greater than 43 mg/kg pose an unacceptable risk to child trespassers, facility workers and hypothetical residential receptors given current Site conditions.

To address the risks posed by the soils described in the final bulleted item above, GZA proposes the construction of an impermeable engineered cap, and the implementation a deed notice and a groundwater Classification Exception Area (CEA), the details of which are provided in the accompanying GZA report. No soil excavation activities will be conducted on the Site. With the engineered cap and deed restriction in place, Site soil will not be accessible by any future receptors, which therefore will be protective of human health. As the exposure pathways to Site contaminants are not complete for future receptors such as construction workers, landscapers, facility workers, and Site visitors with the deed notice; engineering controls; and CEA-in place, the Report concludes that the Site would pose no significant risks to future receptors.

Based upon its review of the analysis and conclusions contained in the Report, USEPA, through a December 22, 2010 e-mail from James S. Haklar, Sr., PCB Disposal Specialist, stated that "we have no further questions or comments with the risk assessment for this site. We await your submittal of a formal application for a risk-based disposal approval."



New Jersey Department of Environmental ProtectionSite Remediation Program

REMEDIAL ACTION WORKPLAN FORM

☐ Non-LSRP (Existing Cases)	⊠ LSRP	☐ Subsurface Evaluato
-----------------------------	---------------	-----------------------

☐ Non-LSRP (Existing Cases	s) 🔀 L	.SRP ∐S	Subsurface E	valuator	Date S (For Departme			
SECTION A. SITE NAME AND LOCATION	l		٠.	•				
_Site_Name: _Unimatic_Manufacturing_Co., In	c			~~~ **********************************				
List all AKAs:			-					
Street Address: 25 Sherwood Lane								
Municipality: Fairfield		(Tow	nship, Borou	ugh or City)				
County: Essex Zip Code: 07004								
Mailing Address if different than street addre	ess: 17 T	oms Point L	ane, Lincoln	Park, NJ 070	035			
Program Interest (PI) Number(s): 99235					s): E20010335			
Date Remediation Initiated Pursuant to N.J.			(b): 06/01/2	2001				
State Plane Coordinates for a central location					Northing: 7450	56		
Municipal Block(s) and Lot(s): Block #								
Block # Lot #			lock #		Lot #			
SECTION B. REQUIRED TECHNICAL SU		<u> </u>						
COTON B. NEGONED TECHNICAE GO			included			Date of		
	;	Not	in This	Previously	Date of	Revised		
Immediate Environmental Concern Report		Applicable	Submission	Submitted	Submission	Submission		
Immediate Response Action Plans		X						
Preliminary Assessment Report				\boxtimes	01/16/2002			
Receptor Evaluation				X	10/29/2002			
Site Investigation Report				X	02/28/2002			
Remedial Investigation/Remedial Action Wo	rk Plan		X					
Feasibility Study Report		\square						
Response Action Outcome Report		X						
Permit Application			X	<u> </u>				
SECTION C. SITE USE						•		
Current Site Use (check all that apply) ☑ Industrial ☐ Agricultural	ſ			e Site Use, if	known (check			
☑ Industrial☐ Residential☐ Park or rec			Industrial Residential	ŀ	☐ Park or recr ☐ Vacant	eational use		
☐ Commercial ☐ Vacant	eauoriai		Commercia		Governmen	ŧ		
☐ School or child care ☐ Governmen	nt		School or c			use unknown		
Other								
SECTION D. PUBLIC FUNDS								
Did the remediation utilize public funds?		•••••				☐Yes ⊠No		
If "Yes," check applicable: UST Grant		JST Loan			Reimbursement	· -		
☐ HDSRF Gra		HDSRF Loan	_		imbursement Pr	•		
☐ Spill Fund		Schools Deve				-		

SE	CTION E.	GENE	RAL										•	•	
7															
	☐ Area(s) of Concern Only (If submitted for specific AOC(s), attach Section H2 of the PA/SI form)														
1		•		• '			•	•	•	sessment/Site I					
	Does the	report o	contain a	a permit	t(s) reque	est th	hat requ	uires Site	e Remed	diation Progran	n apı	proval		⊠ Yes	□ No
	=	-								n the permit red				_ _	• •
Pa	ii res, p iges 33-3									Same minute a butada ministration		>t(3).			
,a		UF (d	pal	۱۱ ۵۰ در	y	Januv								
2.	site propo	osed for	the pur	poses of	of resider	ntial ı	use, use	e as a lic	censed o	or a change in t child care cente	er or	use as a	а	☐ Yes	⊠ No
1										sed?					☐ No
3.	•				•	•		•	•	I.J.A.C. 7:26E-					⊠ No
										re remedy is pro				- -	-
	,, ·	y t		9¢	, 41	. •		u.	santi T	ام ۵۰ رد ۔					
							•								
4.	Is any rad	soipoloit	al contar	mination	ı current	ly pr	esent at	t the AO	۱C/Site?)		********		☐ Yes	⊠ No
5 .										dnance (OE/U)					⊠ No
6.										luct?					⊠ No
7.															⊠ No
8.	•						unds/ele	ements (ever be	en detected in	sedii	iment ab	ove the	Э	,,,
•	ecologica	al screer	ning leve	els?	☐ Arse	enic		Dioxin		∕lercury ⊠	PC	Bs [☐ None	е	
9.	Have pas	st deficie	encies b	een add	tressed i	in thi	is submi	ittal?		•••••				✓ Yes	☐ No
10.	Will the p	roposec	d remed	ial_actio	n render	the	property	y unusal	ble for f	uture redevelop	pmei	nt or for			
	recreation	nal use	(N.J.A.C	C. 7:26C	2-6.4(b) a	and d	guidance	e that ca	an be foi	und at pdf)?				∏ Yec	⊠ No
11										<u>pai)</u> ?					⊠ No
										itoring well(s) n					_
	., 105, I	.Gorialy 1	with	iIIIiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	alia	JUI IC	on mall0	ango) III [mon	y well(5) f	.تai'ŧ	ou with	o ouridC	water	Jouy.
										***************************************					***************************************
	CTION F.		CONDITI										٠		
	eck each r ndards/crit		ype and Soil in					tration of Nater in		mination current Sed = Sed				ny appli	cable
old	. wai us/Cff	,	GW		GW.	- نق ا		Water in		<i>∋</i> eu = 50d	161			Carl	
		Soil ppm	GW ppb	Sed ppm			Soil ppm	GW ppb	Sed ppm			Soil ppm	GW ppb	Sed ppm	L
*VC	OCs	X			<100	1 .4				100–1,000					>1,000
2465246-2	/OCs			- 100 m 2 1 24	<100	1				100–1,000]				>1,000
*P/	AHs 👬	XD.			<10				🗆 .	10–100					>100
	etals				<100					100–1,000					>1,000
PC	Bs 👙			E ST	<10			,Då		10–100		\boxtimes	×		>100
THE CHAIN	esticides				<1]				1-10]			+	>10
No. 1784 W. C. C.	romium				<100°					192 - 1	1.1			\vdash	>1,000
	rcury				<100	7.175%				100–1,000	1 1				>1,000
3482 × 1	enic			!	<10					4.410≚100 <u>-</u>					
EPI					<1,700					1,700–5,100	- TO SERVE			P. Vinterior Oberlan	>5,100
													`		1

1.	For any contaminant group (*) checked above, identify the compound/element with the highest concentration over its applicable remediation standard: PCBs							
2.	Were the laboratory reporting minimum detection limits below applicable remediation standards/ criteria required for the site?⊠ Yes □ No							
3.	Are any of the following conditions currently present (check all that apply):							
	Groundwater: Soil:							
	☑ Contaminated ground water in the overburden aquifer ☑ On-site discharge(s) impacting soil off-site ☑ Contaminated ground water in the bedrock aquifer ☐ Chromate Production Waste ☑ Contaminated ground water in the bedrock aquifer ☐ Munitions and explosives of concern ☐ Contaminated ground water in multiple aquifer units ☑ Contaminated soil in the saturated zone ☐ Multiple distinct ground water plumes ☐ Historic pesticide impacts to soil ☐ Co-mingled onsite ground water plumes ☐ Residual or free product ☐ Co-mingled ground water plumes from both on-site and off-site sources ☐ Historic Fill ☐ Soil contamination due to naturally occurring background conditions ☐ Residual or free product ☐ Soil contamination due to naturally occurring background conditions							
4	. Check each of the following that applies to the primary objective of the remedial action:							
	☐ Treatment of: ☐ Ground Water ☐ Soil ☐ Sediments ☐ LNAPL ☐ DNAPL ☐ Soil Gas ☐ Removal of: ☐ Ground Water ☒ Soil ☐ Sediments ☐ LNAPL ☐ DNAPL ☐ Soil Gas							
	☒ Removal of: ☐ Ground Water ☒ Soil ☐ Sediments ☐ LNAPL ☐ DNAPL ☐ Soil Gas ☒ Containment/Control of: ☒ Ground Water ☒ Soil ☐ Sediments ☐ LNAPL ☐ DNAPL ☐ Soil Gas							
V	/ith migration pathway(s) to:							
	☐ Indoor Air ☑ Ground Water							
	☐ Surface Water ☐ Sediments							
١	☐ Other							
۱,۷	/ith exposure to: I Human receptors							
	☑ Offsite impacts							
5	. Is the remedial action an Interim Remedial Measure that was being implemented at the site? ☐ Yes ※ No							
-	ECTION G. ALTERNATIVE STANDARD / DEVIATIONS							
1								
lf	Alternative remediation standard If proposing an alternative remediation standard pursuant to N.J.A.C. 7:26D-7.4, check here and attach the Alternative Soil Remediation Standard Application Form as an addendum.							
If	eviation from regulations the Licensed Site Remediation Professional has varied from the Technical Rules, provide the citation(s) from which the mediation varied and the page(s) in the attached document where the rationale for the deviation is provided.							
	N.J.A.C. 7:26E Page							
	N.J.A.C. 7:26E Page							
	N.J.A.C. 7:26E Page							
S	ECTION H. APPLICABLE REMEDIATION STANDARDS							
	dicate the Remediation Standards used for all compounds (check all that apply).							
	☑ Default (check all that apply below)							
1	☑ Direct Contact ☑ Impact to Groundwater Soil Screening Levels ☐ Ecological Screening Levels							
1	☑ Alternate Remediation Standards for the Ingestion/Dermal Pathway							
	☐ Alternate Remediation Standards for the Inhalation Pathway							

☐ Soil-Water Partitioning Equation	to Groundwater Pathway (check all that apply below) SPLP Sesoil Sesoil/AT123D		
☐ Ecological Remediation Goals			
	this site as per N.J.A.C. 7:9C (check all that apply)?		
☐ Class I-A	⊠ Class II-A		
Class I-PL Pinelands Protection A			
Class I-PL Pinelands Preservation	Area Class III-B		
SECTION I: SOIL/SEDIMENT REUSE			
1. Will material other than certified clean s	oil be imported from an off-site source?	☐ Yes	⊠ No
2. Will the remedial action involve on-site rec	use of the contaminated media (soil or other materials)?	. 🗌 Yes	⊠ No
3. Will the remedial action involve exporting	contaminated media off-site for reuse or recycling?	☐ Yes	⊠ No
4. Will the remedial action involve soil blendi	ng for applied pesticides for agricultural purposes prior to		57
any reuse?		. ∐ Yes	⊠ No
SECTION J. REMEDIAL ACTION WORKPL	AN INFORMATION		
General			
Are NJDEP-approved permits, other than	any permits needing SRP approval, required prior to		-
I	P	. ∐ Yes	⊠ No
•	·		
Soils			
2. Check each type of remediation being pro	•		
☐ No remedial action required	⊠ Excavation		. •
☒ Capping/other Engineering Control☒ Institutional Control	_		
☐ Chemical Oxidation	☐ Soil Vapor Extraction ☐ Chemical Reduction		
☐ Thermal desorption	☐ Soil Washing		
Other (specify):			
3. Does the proposed remedial action addre	ss all saturated zone source material, if applicable?	⊠ Yes	□ No
4. If an engineering control is proposed, indi	cate the receptor(s) each engineering control is intended to p	orotect	
(check all that apply):			
_	☐ Offsite Impacts ☐ No Engineering Control		
	consent from all involved property owners been obtained?		∐ No
I ·	otive remedy?	. ⊠ Yes	☐ No
Ground Water			
7. Check each type of remediation being pro	·		
☐ No remedial action required☐ Multiple Phase Extraction System	Containment		
SVE/Air Sparging	☑ Monitored Natural Attenuation		
Ozone Sparging	Chemical Oxidation		
☐ Pump & Treat	Other (specify):		
Ecological	()		
Check each type of remediation being pro	posed:		
✓ No remedial action required	☐ Capping		
☐ Excavation/Dredging	Other (specify):		
Indoor Air			
9. Are soil gas concentrations currently >10x	SGSLs?	☐ Yes	□No

10. Check each type of remediation being pr	oposed:		
☐ No remedial action required		epressurization System	
☐ Sealed Vapor Barrier	☐ Sealing of Op	enings and Cracks	
☐ Soil Vapor Extraction System	☐ Monitoring an	d Maintenance Schedule	
Other (specify):			
SECTION K. MISCELLANEOUS			
Will any injured natural resources be rest If "Yes," is the Office of Natural Resource	ored concurrent wit s Restoration involved	h the remedial action?ed?	Yes No
2. Is the proposed remedial action a presun	nptive remedy?		Yes 🖾 No
SECTION L. PERSON RESPONSIBLE FO CERTIFICATION			
Full Legal Name of the Person Responsible			g Co., Inc.
Representative First Name: Kathleen	Re	epresentative Last Name: Smith	
Title: TY easyyer			
Phone Number: (973) 633-9268	Ext: _	Fax:	
Mailing Address: 17 Toms Point Lane			
City/Town: Lincoln Park	State: NJ	ZIP Code: 07035	
Email Address: rbottonister@yahoo.com			
This certification shall be signed by the pers in accordance with Administrative Requirem	on responsible for o ents for the Remed	conducting the remediation who is sub- iation of Contaminated Sites rule at N.	mitting this notification J.A.C. 7:26C-1.5(a).
I certify under penalty of law that I have personnell including all attached documents, and that be the information, to the best of my knowledge aware that there are significant civil penalties am committing a crime of the fourth degree aware that if I knowingly direct or authorize the	ased on my inquiry e, I believe that the s for knowingly sub if I make a written for the violation of any	of those individuals immediately responsubmitted information is true, accurate submitted information is true, accurate mitting false, inaccurate or incomplete alse statement which I do not believe t	onsible for obtaining and complete. I am information and that I o be true. I am also
Signature: Kathlean a. Anut	<u></u>	Date: 2-14-2011	·
Name/Title: Kathleen Smith		No Changes Since Last Sub	mittal 🗵

SECTION M. LICE	NSED SITE REMEDIATION PROFI	ESSION	IAL INFORM	ATION AI	ND STATEMENT	
LSRP ID Number:	509366					
First Name: Benja	amin		Last Name:	Alter		
Phone Number:	(973) 774-3309	Ext:			Fax: (973) 774-3350	
Mailing Address:	55 Lane Road, Suite 407					
City/Town: Fairfie	ld	State:	New Jersey		Zip Code: 07004	4
Email Address: b	enjamin.alter@gza.com					
This statement shal Section 30 b.2.	I be signed by the LSRP who is sub	mitting t	this notificatio	n in accor	rdance with SRRA Section	n 16 d. and
	Licensed Site Remediation Profession Licensed Site Remediation Profess					business in
[SELECT ONE	OR BOTH OF THE FOLLOWING	AS API	PLICABLE]:			
	ersaw and supervised all of the refer reviewed and accepted all of the ref				d herein.	
I believe that the inf	formation contained herein, and incl	uding al	l attached do	cuments,	is true, accurate and com	nplete.
It is my independen submission to the D	t professional judgment and opinion Department, conforms to, and is cons	that the	e remediation vith, the reme	conducte diation re	ed at this site, as reflected quirements in N.J.S.A. 58	1 in this 3:10C-14.
the knowledge and	cisions in this matter were made upo skill ordinarily exercised by licensed J.S.A. 58:10C-16, in the State of Ne	l site rei	mediation pro	fessionals	s practicing in good stand	ling, in
representation or ce significant civil, adm	nt to N.J.S.A. 58:10C-17 that for purp ertification in any document or inform inistrative and criminal penalties, in r conviction of a crime of the third de	nation s cluding	ubmitted to th	ne board c	or Department, etc., that t cuspension, fines and bei	here are
LSRP Signature:	Veryo alle			_ Date:	2/15/11	
LSRP Name/Title:	Benjamin Alter/Senior Vice Preside	ent		No Cha	nges Since Last Submi	ttal 🗵
Company Name:	GZA GeoEnvironmental, Inc.					

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice New Jersey Department of Environmental Protection Site Remediation Program 401 East State Street, PO Box 434 Trenton, NJ 08625



New Jersey Department of Environmental Protection Site Remediation Program

LSRP NOTIFICATION OF RETENTION OR DISMISSAL

Date Stamp (For Department use only)

SECTION A. SITE NAME AND LOCATION	
Site Name: Unimatic Manufacturing Co., Inc.	
List all AKAs:	
Street Address: 25 Sherwood Lane	
Municipality: Fairfield	
County: Essex	Zip Code: 07004
Program Interest (PI) Number(s): 99235	Case Tracking Number(s): E20010335
SECTION B. RETENTION INFORMATION	
I was retained by Unimatic Manufacturing Co., Inc. professional for the remediation at the site on 2/17/1	to serve as the licensed site remediation
I replaced another LSRP:	☐ Yes ⊠ No
Provide name of LSRP:	
I have been hired to address (check one): an area(s) of contents are a second or contents are	concern 🗵 a full site
SECTION C. RELEASE INFORMATION	
I was released byprofessional for remediation at the site on	
† •	or to the issuance of the response action outcome for the site
SECTION D. LICENSED SITE REMEDIATION PROFESSION	ONAL INFORMATION AND STATEMENT
LSRP ID Number: 509366	_
First Name: Benjamin	Last Name: Alter
Phone Number: (973) 774-3309 Ext:	
Phone Number: (973) 774-3309 Ext: Mailing Address: 55 Lane Road, Suite 407	
	Fax: (973) 774-3350
Mailing Address: 55 Lane Road, Suite 407	Fax: (973) 774-3350
Mailing Address: 55 Lane Road, Suite 407 City/Town: Fairfield State: Email Address: benjamin.alter@gza.com	Fax: (973) 774-3350
Mailing Address: 55 Lane Road, Suite 407 City/Town: Fairfield State: Email Address: benjamin.alter@gza.com This statement shall be signed by the LSRP who is submittin Section 30 b.2. I certify that I am a Licensed Site Remediation Professional in New Jersey. I am aware pursuant to N.J.S.A. 58:10C-17 t statement, representation or certification in any document of there are significant civil, administrative and criminal penaltic punished by imprisonment for conviction of a crime of the this	NJ Zip Code: 07004 Tog this notification in accordance with SRRA Section 16 d. and authorized pursuant to N.J.S.A. 58:10C to conduct business hat for purposely, knowingly or recklessly submitting false information submitted to the board or Department, etc., that es, including license revocation or suspension, fines and being
Mailing Address: 55 Lane Road, Suite 407 City/Town: Fairfield State: Email Address: benjamin.alter@gza.com This statement shall be signed by the LSRP who is submitting Section 30 b.2. I certify that I am a Licensed Site Remediation Professional in New Jersey. I am aware pursuant to N.J.S.A. 58:10C-17 to statement, representation or certification in any document of there are significant civil, administrative and criminal penaltic punished by imprisonment for conviction of a crime of the third LSRP Signature:	NJ Zip Code: 07004 Tog this notification in accordance with SRRA Section 16 d. and authorized pursuant to N.J.S.A. 58:10C to conduct business hat for purposely, knowingly or recklessly submitting false information submitted to the board or Department, etc., that es, including license revocation or suspension, fines and being
Mailing Address: 55 Lane Road, Suite 407 City/Town: Fairfield State: Email Address: benjamin.alter@gza.com This statement shall be signed by the LSRP who is submitting Section 30 b.2. I certify that I am a Licensed Site Remediation Professional in New Jersey. I am aware pursuant to N.J.S.A. 58:10C-17 to statement, representation or certification in any document of there are significant civil, administrative and criminal penaltic punished by imprisonment for conviction of a crime of the the	Fax: (973) 774-3350 NJ Zip Code: 07004 Ing this notification in accordance with SRRA Section 16 d. and authorized pursuant to N.J.S.A. 58:10C to conduct business that for purposely, knowingly or recklessly submitting false information submitted to the board or Department, etc., that es, including license revocation or suspension, fines and being ind degree.

	SECTION E. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION
Ì	Full Legal Name of the Person Responsible for Conducting the Remediation: Unimatic Manufacturing Co., Inc.
١	Representative First Name: Kathleen Representative Last Name: Smith
	Title: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
١	Phone Number: (973) 633-9268 / Ext: Fax:
١	Mailing Address: 17 Toms Point Lane
	City/Town: Lincoln Park State: NJ Zip Code: 07035
	Email Address: rbottonister@yahoo.com
1	Indicate relationship to the site (check all that apply):
١	☐ UST Owner/Operator ☐ Innocent Purchaser pursuant to N.J.S.A. 58:10-23.11gd
	☑ Spill Act Liable Party ☐ Child Care Center (☐ Property Owner or ☐ Tenant)
	I am taking over remediation from the Department or another party
ı	If "Yes," indicate name of party that was previously conducting remediation: If "Yes," the party who I am taking over from agrees that I will conduct the remediation. Yes No
	If "Yes," the party who I am taking over from agrees that I will conduct the remediation
	notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).
	I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, and that to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties. Signature: Kachlein A James Treas V' Date: 2-14-201/
	Name/Title: Kathleen Smith
	SECTION F. "OPT IN" REQUEST
	Is a Case Manager assigned? ☑ Yes ☐ No If "Yes," provide name: Gene Fowler
	Current oversight mechanism:
-	☐ UST Rule ☐ MOA
	☑ ISRA Rule ☐ None
	☐ ACO/MOU/RA
	Does the site involve or potentially impact a childcare center, school or residence?
	In accordance with N.J.A.C. 7:26C-2.3(b), I hereby request that the Department allow the remediation at the site identified in Section A, above, to be conducted in accordance with N.J.A.C. 7:26C-2.4. I certify that I have paid all invoiced uncontested oversight costs and applicable fees and that, if applicable, my remediation funding source has been established and maintained in an amount that reflects the estimated cost of remediation and that all applicable surcharges have been paid. I further certify that I agree to pay oversight costs incurred by the Department but not yet invoiced and, if applicable, to maintain my remediation funding source in an amount that equals the estimated cost of the remediation and to pay any required surcharge.
	I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.
	I understand that my submittal of this certification provides an automatic approval of this request, provided that I am eligible for approval and that the Department finds the certification to be truthful and accurate.
	Signature: Kathleen a, Ameth Treas VP Date: 2-14-2011
•	Typed/Printed Name: Kathleen Smith
	Title: Transmer



Boring Log 21-3

Sheet

eet 1 of 1

Project		Unimatic Manufacturing			П	Location		25	Sherw	ood Lan	ie		
Project N		12.0075418.20			7	Client				•	cturing, Inc.		
Drilling C	ompany	Hawk Drilling Company	:		一	Elevation and	Datur		Avail				
Drilling E	quipment	Power-probe Drilling Method	Direct Pus	h	T	Date Started			5/4/10		Date Finished	6/4/10	× 3
Sampler		5' acetate liner			\neg	Final Boring	Depth		10 ft		Depth to Rock	<u>-</u> .	1.6
Sampler	Hammer	- Weight (lbs)	- Dro	p (in)	. 1	Groundwater Depth (ft)		Initi	al <u>V</u>		mpletion <u></u>	_ 24 Hours <u>\</u>	-
Drilling F	oreman	Andrew Bunnell	• .			GZA Inspect	or	Cath	erine	Fang	Checked By	Ben Alter	
			******	grup (L	₹5			mple Da	ata			
Depth (ft)		Sample Description	•	PID Reading (ppm)	Ele (f	t)	Number	Recov.	netr. ssist Võin	N-Value (Blows/foo	t)	Remarks	
- o -	FILL	grass, Gravel, brown fine to medi	ım Sand	0	4-		2	- 12°	9 5 8	10 20 30 4	10		
	dry	grass, Craver, brown line to medic	um Sano,			*****					. ,		
1 -				0		*****					21-3-1 w	as collected from	1' bg
		•			1						at 1335		
- 2 -				0			-					•	
[]						*******	RUN-1	12				•	·
- 3 -		•	*	0		*****	۳				21-3-3 w	as collected from	1 3' bg
[]		•	4			*****	\$ ·				at 1338		
F ⁴]				0		- 🟻							
5 -		•				*****							
F "]				0		*************************************						÷	
F 6 =	Loose	brown medium to coarse silty SA	ND, dry					1					
<u> </u>				0									
F 7 =	Lland	OLAY day		0			~	N					
	Haro	prown CLAY, dry					RUN-2	72				•	. 1.
- 8 -				0			<u></u>				21-3-8C	was collected fro	m 8'
[]						<u> </u>		N			bg at 13	40	
F 9 -			-	0	ľ	$F \rightarrow$		N				•	
<u> </u>			' '					N					
F 10 =				0			_	N					
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and: Log - NJ-GZA_GEOTECHNICAL ...Template 418.2, UNIMATIC ISRA CLOSUREIGINT1/2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:41:10 AM

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	-4



of Sheet Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Date Started Date Finished **Drilling Equipment** Drilling Method 6/4/10 **Direct Push** 6/4/10 Power-probe Depth to Rock Final Boring Depth Sampler 12 ft 5' acetate liner Groundwater Weight (lbs) Drop (in) Sampler Hammer Completion ____ 24 Hours V Initial 🔽 Depth (ft)
GZA Inspector Checked By Drilling Foreman Ben Alter Catherine Fang Andrew Bunnell Sample Data PID Reading (ppm) Elev Depth Remarks Sample Description (Blows/foot) (ft) (ft) 10 20 30 40 0 Brown fine SILT, dry 21-4-1 was collected from 1' bg 0 at 1410 0 42 <u>ප</u>[` 21-4-3 was collected from 3' bg 3 0 at 1412 Dark brown coarse SILT with pungent smell, dry 251 266 Medium loose brown medium to coarse SAND, moist 10 Medium loose greenish grey medium to coarse clayey SAND, moist 10.6 36 21-4-8C was collected from 8' 109 bg at 1415 Red brown fine to medium silty SAND, dry 55.1 10 74.3 RUN-3 10.3 Loose brown fine SAND, dry 21-4-12C was collected from 12 2.7 12' bg at 1418 13 15 16 17 18

JA75400 TO 7559975418.2, UNIMATIC ISRA CLOSURE\GINTY12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:41:17 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

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Boring Log 21-5

Sheet

of

1.1

Project		Unimatic Manufacturing	Ī	ocation			25	Sherw	ood/	Lan	9
Project I	No.	12.0075418.20	1	Client							turing, Inc.
Drilling (Company	Hawk Drilling Company	E	levation an	nd Dat	lum		Avail			
Drilling 8	Equipment	Power-probe Drilling Method Direct Push	D	Date Started	<u>.</u>			5/4/10		C	Pate Finished 6/4/10
Sampler	r	5' acetate liner	F	inal Boring	Dept	h		12 ft		C	Pepth to Rock
Sampler	Hammer	_ Weight (lbs) Drop (in)	G	Groundwate	r	,	Initi	ial 🔽	-	Cor	npletion 👤 _ 24 Hours 🖳 _
Drilling I	Foreman	Andrew Bunnell	Ğ	Depth (ft) SZA Inspec	tor		т	nerine	Fano	, [Checked By Ben Alter
Depth		(m)	lev	MATERIAL SYMBOL	je		Sa	mpie D	ata N-V	alue	Domorko
(ft) - 0		Od.	(ft)	SAME SAME	Number	T,	Seg E	Penetr. resist Bl/6in	10 20		' .
- 1	Aspha					ſ	1				, .
- 1 -	FILL:	Gravel, Silt, dry									21-5-1 was collected from 1' bg at 1450
_ 2 -	Brown	n fine to medium SILT, some Gravel, dry		****	ا - [
; :	1			<u> </u>	RUN-1	<u>P</u>	72				
- 3 -	1	0			۳						21-5-3C was collected from 3'
Ē . :	-			<u> </u>	1						bg at 1452
- 4 -	1	0		<u> </u>	1						
- 5 -	=		,	L							
F " :	<u> </u>	0	:								
- 6 -	Loose	brown fine SAND, dry									
E :	<u> </u>	0									
7 -	1				7						
E :	3				RUN-2	9	8				
- 8 -	1	0	•		2		1				
Ė :	3				1		1				
- 9 -	i .	0					1	.			
E	Stiff b	rown CLAY, dry			1		1				,
- 10 -	1	0	٠		ᅒ		1				
È ₄₄ :	1				낅	۵	4				
- 11 - -	1	0		<u> </u>	RUN-3	g	24				
12 -											04.5.40
Ė :]	0									21-5-12 was collected from 12' bg at 1455
- 13 -	<u>.</u>										
:	-										
14 -									\cdot		
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Boring Log 21-6

Sheet

of

Project	Unimatic Manufacturing				cation		25	Sherv	vood La	ane	
Project No	12.0075416.20				ient		4	· ·		actu	ıring, Inc.
Drilling Co	mawk Drilling Company			- 1	evation an		No	t Avai	able	15.	te Finished
Drilling Eq	Power-probe Drilling Method	Direct Pu	sh		ate Started			6/4/10		1	6/4/10
Sampler	5' acetate liner		··· · · · · · · · · · · · · · · · · ·		nal Boring			12 ft			pth to Rock
Sampler F		<u>- D</u>	rop (in)	· 0	roundwate epth (ft) ZA Inspec	·r	ln	itial <u>V</u>			eletion 24 Hours <u>V</u>
Drilling Fo	Andrew Bunnell				ZA INSPEC	tor		herine		Jun	ecked By Ben Alter
Depth (ft)	Sample Description		PID Reading (ppm)	Elev (ft)	MATERIAL SYMBOL	Number	<u> </u>	Penetr. Pesist Giller		oot)	Remarks
- 0 🕇	Stiff brown CLAY, dry	·····	0			-	N				
1 -		_	0								21-6-1 was collected from at 1530
- 2 -						+					
3 -			0			RUN-1	PD 84	?			21-6-3C was collected fro
- 4	•					}					
			0			}			.		
- 5 -	,		0		<u> </u>	 		 			
6 -	Hard brown silty SAND, some Gravel, dr	у.				-					
]	•										!
- 7 -			0			7					
= }				ŀ		RUN-2	[6] %	3			
- 8 -	•		0			-					
9		•	0								·
10				İ		-					·
						က္					
- 11 -			0		1111	RUN-3	β 2	5			
= =						1					
12			7 •								21-6-12C was collected f 12' bg at 1535
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 17 18 19 10 10 10 10 10 10 10 10 10 10 10 10 10											
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Boring Log 21-7

Project					 .	11.00	ation			·				Sileet 1 Oi 1	_
Project N	Unimatic Manu					Clie				25	Sherw	ood L	ane	<u> </u>	
	12.0070410.20	·.						40-					ıfact	uring, Inc.	
Drilling C	. -	15 m					vation ar		ium	Not	Avail	able.	-		
i	quipment Hand Auger	Drilling Method Direct	Push	<u> </u>		Ι.	te Started				7/1/10		- 1	ate Finished 7/1/10	
Sampler	-						al Boring		th 		1 ft		De	epth to Rock	
i	Hammer -	Weight (lbs)	Drop	(in)	_	l De	oundwate oth (ft)			Initi	ial <u>V</u>			pletion <u> </u>	-
Drilling F	oreman -					GZ	A Inspec	tor	(Cath	nerine	Fang	Ct	necked By Ben Alter	
ws/ ft	H H	<u>.</u> .	,	gling ([전				mple Da	ata			
Depths	Sample	Description		PID Reading (ppm)	- [5	lev. (ft)	MATERIAL SYMBOL	Number	Type	(j. č	Penetr. resist Bl/6in	N-Va (Blows		Remarks	,
ق و ا	රි Grass, dark brown SILT	. some Gravel, dry		0		-				œ	g = m	10 20	30 40		$\dot{-}$
-				1				RUN-1	₹.	12				21-7-1 was collected from	
- 1 -				0			Ш	2		-				0.5'-1.0' bg at 1108	
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UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 9/23/2010 9:54:08 AM ... Report: Log -Template TEMPLATE.GDT

Boring Log

21-7A

GZA GeoEnvironmental, Inc.

Sheet

of

Project					· · · · ·	Location		· .				Sheet	1	of	
Project No.	Unimatic Manu					Client				erwood L					
Drilling Company	12.0075418.20					L	and n	-			ıfact	uring, Inc.			
Drilling Equipment	MIG Environme	ental Drilling Meth				Elevation		alum	Not A	ailable_	15	4. F			
	Geoprobe	Drilling Meth	Direct I	Push	-	Date Star			7/27/	10		te Finished	7/2	7/10	
Sampler	4' acetate liner					Final Bori		oth 		l ft	De	epth to Rock		-	
Sampler Hammer	<u> </u>	Weight (lbs)		Drop (in)	-	Groundwa Depth (ft) GZA Insp	ater		Initial \(\sum_{\text{}}	7 -		pletion 👤	_ 24	Hours <u>Y</u>	
Drilling Foreman	Deep Sodhi					GZA Insp	ector	5		p Singh	Ct	ecked By	Ben A	lter	
Depth Control of the	Sample [Description		PID Reading (ppm)	E ((#) WATERIAL SYMBOL	Number	ype	Sampl (in) Secov.		ilue /foot)		Rema		
_ 0 ŠŠ	prown f-SAND			1		2 "	<u>₹</u>	-	1 2 2 E	10 20	30 40				
Light b	prown f-SAND, sor	ne hard black	mineral at	0											
- 2 -	•						RUN-1	PUSH	မ္က						
-							ି ≅	E.							
3 -				0								21-7A	was col	llected fro	יתנ
:]												2.5'-3	.0' bg at	1310	
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Sheet

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Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available **Drilling Equipment** Drilling Method Date Started Date Finished **Hand Auger Direct Push** 7/1/10 7/1/10 Final Boring Depth Sampler Depth to Rock 1ft Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial $\overline{\nabla}$ 24 Hours 🔻 Completion <u> </u> **Drilling Foreman** Checked By Catherine Fang Ben Alter Sample Data Depth a phws/ + PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Sample Description Remarks Run-1 Number 10 20 30 40 Grass, dark brown SILT, some Gravel, dry 0 4 21-8-1 was collected from 0.5'-1.0' bg at 1050 0 2 12 13

A18.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 9/23/Z010 9:54:10 AM ... Report. Log -INICAL ...Template TEMPLATE.GDT

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1175400 TO 75 5418.2, UNIN

21-8A **Boring Log**

GeoEnvironmental, Inc.

Sheet

of

1 1 Project Location Unimatic Manufacturing 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **MIG Environmental** Not Available **Drilling Equipment Drilling Method** Date Started Date Finished Geoprobe **Direct Push** 7/27/10 7/27/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 Completion T 24 Hours V Depth (ft) GZA Inspector Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter Sample Data PID Reading (ppm) Depth Elev (ft) N-Value (Blows/foot) Sample Description Remarks (ft) 10 20 30 40 0 Dark brown Silty SAND, some Gravel, dry 0 RUN-1 2 0 3 Sample 21-8A was collected from 2.5'-3.0' bg at 1250 0 JA75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/SOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 9/23/2010 9:54:12 AM ... Report: Log - NJ-GZA, GEOTECHNICAL ... Template TEMPLATE.GDT 0 8 9 10 11 12 13 14 18

21-9 **Boring Log**

Project	· · · · · · · · · · · · · · · · · · ·		: -			11.0	cation		·	·				SHEEL	1 (<i>"</i>	,
	Unimatic Manufa	c <u>turing</u>				1				25	Sherv	ood L	ane			<u></u>	
Project No.	12.0075418.20		- :			_L.	ent		_	Un	imatic	Manu	fact	uring, Inc.			
Drilling Company							vation a		atum	No	t Avail	able		_			
Drilling Equipment	Hand Auger	Drilling Method Dire	ect Pus	h_		- 1	te Starte			-	7/1/10			te Finished	7/1/1	0	
Sampler						- 1	al Boring		th		1 ft		De	pth to Rock		-	
Sampler Hammer	- w	/eight (lbs)	. Dro	p (in)	-	Gr De	oundwate pth (ft) 'A Inspec	er		Init	tial <u>V</u>		Com	pletion 🕎	_ 24 Ho	urs 🔽	_
Drilling Foreman						GZ	A Inspec	tor		Catl	herine	Fano	Cr	necked By	Ben Alte	 -	
3√ft 1√ft	· ·			guil	İ		4-				ample Da	ata			DOI / GIO		
Depthy physical County physical County physical	Sample De			PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре	Recov.	Penetr. resist Bi/6in	N-Va (Blows 10 20 :		,	Remark	\$	
Grass	s, dark brown SILT, s	ome Gravel, dry	,	0				RUN-1	*HA	12			П				
E 1 =							Ш	⊋	*					21-9-1 0.5'-1	was colled 0' bg at 10:	ted fron	n
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21-10 **Boring Log**

GeoEnvironmental, Inc.

Sheet

of

1 1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Drilling Equipment** Drilling Method Date Started Date Finished **Direct Push** 7/1/10 7/1/10 Hand Auger Sampler Final Boring Depth Depth to Rock 1 ft Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 24 Hours V Completion T Drilling Foreman Checked By Catherine Fang Ben Alter PiD Reading (ppm) Sample Data Depthya Busi Elev (ft) N-Value (Blows/foot) Remarks **Sample Description** 10 20 30 40 Grass, dark brown SILT, some Gravel, dry 0 Run-1 Į₹ 21-10-1 was collected from 0.5'-1.0' bg at 1010 0 2 3 10 12 13 15 16 17 18 19

Sheet

of

Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum MIG Environmental Not Available **Drilling Equipment** Drilling Method Date Started Date Finished **Direct Push** 7/27/10 Geoprobe 7/27/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Weight (lbs) Groundwater Initial $\underline{\nabla}$ Completion T 24 Hours 🔽 Depth (ft) GZA Inspector Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth € Remarks Sample Description (ft) 10 20 30 40 Light Brown SAND, some Gravel, some organic material (roots) 21-11 was collected on 7/27/10 from 0'-0.5' bg at Light Brown SAND, some Gravel, unidentified 0 1320 white material @ 1.5' bg RUN-1 PUSH Light Brown Silty SAND 0 Contingency sample 21-11 was collected on 7/27/10 3 0 from 2.5'-3.0' bg at 1320 Sample 21-11 was collected on 8/24/10 from 2.5'-3.0' bg 0 at 1135 Duplicate sample 21-21 was collected on 8/24/10 from 2.5'-3.0' bg at 1135 12 13 14 15 16 17 18 19

S. 1418.2. UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS112.0075418.20_BORING LOGS.GPJ ... 9/23/2010 9:53:49 AM ... Report: Log -TECHNICAL ...Template TEMPLATE.GDT

Boring Log 21-12

GZA GeoEnvironmental, Inc.

Sheet of 1 1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum MIG Environmental Not Available Drilling Equipment Drilling Method Date Started Date Finished Geoprobe **Direct Push** 7/27/10 7/27/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Groundwater Weight (lbs) Drop (in) Initial 🔽 Completion \(\bullet\) 24 Hours V Depth (ft) GZA Inspector Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Depth ≥ Elev (ft) N-Value (Blows/foot) Casng t Sample Description Remarks Type 10 20 30 40 Light Brown SAND, some Gravel, some organic material (roots) 21-12 was collected on 7/27/10 from 2.5'-3.0' bg at 0 1335 21-12 was collected on RUN-1 8/24/10 from 2.5'-3.0' bg at 0 1200 3 0 Contingency sample 21-12 Light Brown Clayey SAND ὐ½75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\SOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 9/23/2010 9:53:50 AM ... Report: Log -NJ-GZA_GEOTECHNICAL ...Tempiste TEMPLATE.GDT was collected on 8/24/10 from 2.5'-3.0' bg at 1200 0 10 11 12 13 14 15 16 18 19

Sheet

of

Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum **MIG Environmental** Not Available **Drilling Equipment** Drilling Method Date Started Date Finished Geoprobe **Direct Push** 7/27/10 7/27/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Groundwater Depth (ft) GZA Inspector Weight (lbs) Drop (in) Initial 🔽 Completion <u></u> 24 Hours V Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter Sample Data PID Reading (ppm) Depth g Elev (ft) N-Value (Blows/foot) Sample Description Remarks 10 20 30 40 0 Brown Silty SAND, some Organics (roots), unidentified white material observed 21-13 was collected from 0'-0.5' bg at 1305 0 RUN-1 32 Brown f-SAND, some CLAY and SILT 0 3 0 0 10 12 13 15 16 18 19

UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS1/2.0075418.20_BORING LOGS.GPJ ... 9/23/2010 9:53:51 AM ... Report: Log -.Template TEMPLATE.GDT

21-14R **Boring Log**

GeoEnvironmental, Inc.

Sheet

of

1 1 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Not Available **MIG Environmental** Drilling Equipment Drilling Method Date Started Date Finished Geoprobe **Direct Push** 8/24/10 8/24/10 Sampler Final Boring Depth Depth to Rock 8 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 24 Hours V Completion T Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Depth≸ N-Value (Blows/foot) Elev Sample Description Remarks (ft) (ft) 10 20 30 40 0 Red Brown f Silty SAND, some f Gravel, some organic material (roots), trace brick Light Brown f Silty SAND, f Gravels, trace 0 construction fill, tightly packed, dry RUN-1 36 2 0 3 0 21-14R was collected from 2.5'-3.0' bg at 1007 J.75400 TO 75599/7548.2, UNIMATIC ISRA CLOSURE\SOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 9/23/2010 9:53:53 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT Dark Brown f Silty SAND, f Gravel, mixed with ash-like material, dry 0 5 0 Yellow Brown f Silty SAND, loosely packed, dry 6 Contingency sample 21-14R 0 was collected from 5.5'-6.0' bg at 1021 0 8 0 9 10 12 13 15 16 17 18 19

GeoEnvironmental, Inc.

Sheet

of

Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **MIG Environmental** Not Available Drilling Equipment Drilling Method Date Started Date Finished Geoprobe **Direct Push** 8/24/10 8/24/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4ft Sampler Hammer Weight (lbs) Groundwater Drop (in) Initial $\overline{\underline{V}}$ Completion **T** 24 Hours V Depth (ft)
GZA Inspector Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Depth<u>≹</u> Elev N-Value (Blows/foot) Sample Description Remarks (ft) (ft) 0 Red Brown f Silty SAND, some f Gravel, some organic material (roots), trace brick 21-16 was collected from 0'-0.5' bg at 1050 Light Brown f Silty SAND, f Gravels, trace construction fill, tightly packed, dry 0 2 0 3 0 Contingency sample 21-16 A18.2. UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 9/23/2010 9:53:56 AM ... Report: Log - INICAL ... Template TEMPLATE.GDT was collected from 2.5'-3.0' bg at 1055 0. 10 12 13 15 16 18 19

Boring Log 21-17

GZA GeoEnvironmental, Inc.

Project No	Unimatic Manufacturing 12.0075418.20			Cli	ent					od La anufa		ring. Inc	
Drilling Cor	mpany MIG Environmental			Unimatic Manufacturing, Inc. Elevation and Datum Not Available									
Drilling Equ	Geoprobe Drilling Method Direct	Push		Da	te Started			8/24			Date	Finished	8/24/10
Sampler	4' acetate liner				al Boring		h		4 ft		Dep	th to Rock	-
Sampler H		Drop (i	in) _	l De	oundwater pth (ft)			Initial \	<u>Z</u>	_ c		etion <u></u>	_ 24 Hours <u>\u00e4</u>
Drilling For	^{eman} Deep Sodhi	- T =	. 1 1	GZ	A Inspect	or	S		ep Si		Che	cked By	Ben Alter
Depth (ft) (ft) Depth (ft) (ft)	Sample Description	PID Reading	(mdd)	Elev. (ft)	MATERIAL SYMBOL	Number	Туре	Samp (in) Senetr.	le Data	N-Value Blows/fo	ot)		Remarks
- 0 02	Red Brown f Silty SAND, some f-Gravel, some organic material (roots), trace brick Light Brown f- Silty SAND, f-Gravels, tightly		0					•		,		21-17 0'-0.5	was collected from the collected
2	packed, dry		0			RUN-1	PUSH	48				٠.	
3 -	Dark Brown f Silty SAND, f-Gravel, loosely packed, dry		0					:				was c	ngency sample 2 ollected from 2.5
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Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum MIG Environmental Not Available **Drilling Equipment Drilling Method** Date Started Date Finished Geoprobe **Direct Push** 8/24/10 8/24/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 Completion . T 24 Hours V Depth (ft) GZA Inspector Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter Sample Data PID Readir (ppm) Elev (ft) N-Value (Blows/foot) Sample Description Remarks 10 20 30 40 Red Brown f Silty SAND, some f Gravel, some organic material (roots), trace brick 21-18 was collected from 0'-0.5' bg at 1025 Light Brown f Silty SAND, f Gravels, trace 0 construction fill, tightly packed, dry RUN-1 2 0 3 Contingency sample 21-18 was collected from 2.5'-3.0' 0 bg at 1030 0 748.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS112.0075418.20_BORING LOGS.GPJ ... 9/23/ IIICAL ...Template TEMPLATE.GDT 13 15 16 17 18 19

10 9:53:58 AM ... Report: Log -

Boring Log 21-19

GZA GeoEnvironmental, Inc.

Sheet 1 of 1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum MIG Environmental Not Available **Drilling Equipment** Drilling Method Date Started Date Finished Geoprobe **Direct Push** 8/24/10 8/24/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Weight (lbs) Groundwater Depth (ft) GZA Inspector Drop (in) Initial 🔽 Completion \(\bar{\pi}\) 24 Hours V **Drilling Foreman** Checked By Deep Sodhi Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Depth₂ Elev (ft) N-Value (Blows/foot) Sample Description Remarks (ft) 10 20 30 40 0 Red Brown f SAND, some f Gravel, some organic material (roots) Contingency sample 21-19 was collected from 0'-0.5' bg 0 at 0938 0 Dark Brown f-m SAND, f-Gravel 3 0 Contingency sample 21-19 I/Y5400 TO 75599/75418.2. UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GP.J·... 9/23/2010 9:53:59 AM ... Report: Log -U-GZA_GEOTECHNICAL ... Template TEMPLATE.GDT was collected from 2.5'-3.0' bg at 0940 0 10 13 16 18 19

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Project Project No	Unimatic Manufacturing			Location Client	25 She	rwood Lan	<u>e</u>
Drilling Co	12.00/5418.20			Elevation and D	3-4		turing, Inc.
	MIG Environmental			1	Not Av	ailable	
Drilling Eq	uipment Geoprobe Drilling Method [Direct Pus	h	Date Started	8/24/	IU I	Date Finished 8/24/10
Sampler	4' acetate liner	14		Final Boring De	4	π	Depth to Rock
Sampler H	- ' ' '	_ Dro	p (in) -	Groundwater Depth (ft)	Initial <u>V</u>		mpletion 24 Hours <u>\rightarrow</u>
Orilling Fo	reman Deep Sodhi	<u> </u>	· · · · · · · · · · · · · · · · · · ·	GZA Inspector	Sangee	p Singn	Checked By Ben Alter
Depth (ft)	Sample Description		PID Reading (ppm)	MATERIAL SYMBOL	Samble Type (in) Penetr.		Remarks
- o 📲	Red Brown f SAND, some f Gravel, some	organic	<u>a</u>	2" 2 2000	N S S S S S S S S S	10 20 30 4	0
1 - 1 -	material (roots)		0	1 N 1 O	PUSH 42		Contingency sample 21-20 was collected from 0'-0.5' b at 1130
3 -	Dark Brown f-m SAND, f Gravel		0	O O			Contingency sample 21-17 was collected from 2.5'-3.0' bg at 1133
5 - 5 -			0				
- 6 -							
8 -		•					
- 9 -							
- 11 -							
- 12							
13							
- 12 - 13 - 14 - 15 - 16 - 17 - 1							
- 16 -							
- 18 -							
- 19 -							

21-22

GZA GeoEnvironmental, Inc.

Sheet

of Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **MIG Environmental** Not Available Drilling Equipment Drilling Method Date Started Date Finished Geoprobe **Direct Push** 9/29/10 9/29/10 Sampler Final Boring Depth Depth to Rock 4 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial ∇ Completion _____ 24 Hours 🔽 Depth (ft)
GZA Inspector Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Depth Elev (ft) N-Value (Blows/foot) Sample Description Remarks 0 Red Brown f-m SAND, some f Gravel, some organic material (roots) Sample 21-22 was collected from 0'-0.5' bg at 0945 0 RUN-1 2 Dark Brown m-c SAND, trace Silt, little moist 0 3 0 Contingency sample 21-22 75599/75418.2, UNIMATIC ISRA CLOSURE\SOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 10/20/2010 3:19:43 PM ... Report: Log collected from 2.5'-3.0' bg at 0945 Ð 5 13 15 16 18 19

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1 1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum MIG Environmental Not Available Drilling Equipment Drilling Method Date Started Date Finished Geoprobe **Direct Push** 9/29/10 9/29/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Weight (lbs) Groundwater Drop (in) Initial 🔽 Completion T 24 Hours V Depth (ft) GZA Inspector **Drilling Foreman** Checked By Deep Sodhi Sandeep Singl Ben Alter PID Reading (ppm) Sample Data Depth₂ Elev N-Value (Blows/foot) Casng t Sample Description Remarks (ft) 10 20 30 40 Red Brown f-m SAND, some f Gravel, some organic material (roots) Sample 21-23 was collected from 0'-0.5' bg at 0935 0 RUN-1 2 Dark Brown f SAND, trace Silt, little moist 0 3 0 Contingency sample 21-23 collected from 2.5'-3.0' bg at Dark Brown f-m SAND, white concrete material 0 10 12 13 15 16

118.2, UNINATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 10/20/2010 3:19:44 PM ... Report. Log -CAL ... Template TEMPLATE.GDT

Boring Log 21-24

GZA GeoEnvironmental, Inc.

Project	Unimatic Manufacturing		Location 25 Sherwood Lane
Project No	12.0075418.20		Client Unimatic Manufacturing, Inc.
Drilling Co	ompany MIG Environmental		Elevation and Datum Not Available
Drilling Ed			Date Started 9/29/10 Date Finished 9/29/10
Sampler	4' acetate liner		Final Boring Depth 4 ft Depth to Rock -
Sampler I	• •	` ' -	Groundwater Depth (ft) Initial ▼ _ Completion ▼ _ 24 Hours ▼
Drilling Fo	Deep Soani		GZA Inspector Sandeep Singh Checked By Ben Alter
Deptha ous	Sample Description	(mdd)	Sample Data Service Data Sample Data Service Data Service Data Service Data Service Data Service Data Service Data N-Value (Blows/foot) 10 20 30 40 Remarks
- 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Red Brown f SAND, some f Gravel, some organic material (roots)	0	Contingency sample 21-2 was collected from 0'-0.5 at 1150
3 -	Dark Brown m-c SAND, white concrete material	0	Contingency sample 21-2 collected from 2.5'-3.0' bo
10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18			
7 -			
8 -			
9 -			
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11 -			
12			
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14			
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Sheet

of Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available MIG Environmental Drilling Equipment **Drilling Method Date Started** Date Finished Geoprobe **Direct Push** 9/29/10 9/29/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Groundwater Depth (ft) GZA Inspector Weight (lbs) Drop (in) Initial 🔽 Completion **T** 24 Hours 🔽 Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter Sample Data Depth₃ Elev (ft) N-Value (Blows/foot) Sample Description Remarks (ft) 10 20 30 40 0 Red Brown f SAND, some f Gravel, some organic material (roots) Contingency sample 21-25 was collected from 0'-0.5' bg 0 at 1140 RUN-1 36 Dark Brown f-m SAND, trace Silt, little moist Ò Dark Brown m-c SAND, white concrete material 0 Contingency sample 21-25 collected from 2.5'-3.0' bg at 1140 0 10 12 13 15 16 17 18 19

418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 10/20/2010 3:19:46 PM ... Report: Log - CHNICAL ...Template TEMPLATE.GDT

Boring Log 21-26

GZA GeoEnvironmental, Inc.

Sheet of 1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum MIG Environmental Not Available Drilling Equipment Drilling Method Date Started Date Finished Geoprobe **Direct Push** 9/29/10 9/29/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 Completion \(\bullet\) 24 Hours V Depth (ft)
GZA Inspector Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Depthasis (ft) Elev (ft) N-Value (Blows/foot) Sample Description Remarks 10 20 30 40 0 Red Brown f-m SAND, some f Gravel, some organic material (roots) Contingency sample 21-26 was collected from 0'-0.5' bg 0 at 1000 Dark Brown f-m SAND, some Silt, Cobbles RUN-1 2 Ģ 3 Contingency sample 21-26 collected from 2.5'-3.0' bg at 0 J.75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 10/20/2010 3:19:47 PM ... Report: Log -NJ-GZA GEOTECHNICAL ... Template TEMPLATE GDT 0 10 11 12 13 15 16 17 18 19

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Ртојест Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum **MIG Environmental** Not Available **Drilling Equipment** Date Started Drilling Method Date Finished **Direct Push** Geoprobe 9/29/10 9/29/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4ft Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 Completion T 24 Hours V Depth (ft) GZA Inspector Drilling Foreman Checked By Deep Sodhi Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Depths (ft) Elev (ft) N-Value (Blows/foot) Sample Description Remarks 10 20 30 40 0 Red Brown f Silty SAND, some f-Gravel, some organic material (roots), trace brick Sample 21-28 was collected from 0'-0.5' bg at 1130 Light Brown f- Silty SAND, f-Gravel, tightly 0 packed, dry 2 0 Dark Brown f Silty SAND, f-Gravel, loosely packed, dry 3 Contingency sample 21-28 0 collected from 2.5'-3.0' bg at 1130 12 13 15 16

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Boring Log ______**21-29**

GZA GeoEnvironmental, Inc.

Sheet

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Project	Unimatic Manufacturing		- 1	ocation			25 \$	Sherw	ood Lar	ne .
Project No	12.0075418.20			lient			Uni	matic	Manufa	cturing, Inc.
Drilling Co	MIG Environmental		1.	levation and		tum	Not	Avail	able	
Drilling Equ	uipment Geoprobe Drilling Method Direct Pus	h .	ı	ate Started			9/:	29/10		Date Finished 9/29/10
Sampler	4' acetate liner	_	F	inal Boring	Dept	h		4 ft		Depth to Rock
Sampler H	lammer Weight (lbs) Dro	p (in) -		Groundwater Depth (ft)	_		Initi	al <u>V</u>		empletion 💆 💄 24 Hours 🕎
Drilling For	reman Deep Sodhi		G	ZA Inspect	or		Sano	deep	Singh	Checked By Ben Alter
7.64 ##		g l		44				mple D	ata	·
Depth line	Sample Description	PID Reading (ppm)	Elev (ft)	NATERIAL SYMBOL	Number	Туре	Recov. (in)	Penetr. resist Bl/6in	N-Value (Blows/foo	(i) Remarks
	Red Brown f-m SAND, some f Gravel, some organic material (roots)									Sample 21-29 was collected from 0'-0.5' bg at 1115
2 -	Red brown m SAND, Concrete, Gravel, Fill	0			1-N	PUSH	36			
[]	Dark Brown m-c SAND, trace Gravel, black ash-like material	0			R					
3 1		0							Market and the second	Contingency sample 21-29 collected from 2.5'-3.0' bg
F 1	Red brown f-m SAND, some Cobbles	0						.=-		
5 =	•									
6 =									Lipa and a second	
7 -										
8 7				*****					-	
9 -										
5										
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12										
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late TEME										
Tale 17 - 17 - 1										
NJ-GZA GEOTECHNICAL Template TEMPLATE GDT										
19 -										
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of

Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Not Available MIG Environmental **Drilling Equipment** Drilling Method Date Started Date Finished Geoprobe **Direct Push** 9/29/10 9/29/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Weight (lbs) Groundwater Drop (in) Initial 🔽 Completion <u></u> 24 Hours V Depth (ft) GZA Inspector Checked By Drilling Foreman Deep Sodhi Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Depth≦ (ft) g Elev (ft) N-Value (Blows/foot) Sample Description Remarks Recov. 10 20 30 40 0 Red Brown f-m SAND, some f Gravel, some organic material (roots) Contingency sample 21-33 was collected from 0'-0.5' bg 0 at 1200 2 0 Concrete, Cobbles 0 Contingency sample 21-33 Dark Brown f-m SAND, trace Silt, little moist collected from 2.5'-3.0' bg at 0 10 12 13 15 16 17 19

418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 10/20/2010 3:19:55 PM ... Report: Log -ICAL ...Template_TEMPLATE.GDT

> Sheet 1 : of

2

Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Hawk Drilling Company

Drilling Method Direct Push Not Available

GZA GeoEnvironmental, Inc.

Date Finished Drilling Equipment Date Started 1/27/10 1/27/10

	Power-probe	Drilling McG100	Direct Pus	h	- 1	pate otarica		1/	<u> 27/10</u>]		1/	27/10	
Sampler	4' acetate liner				- 1	Final Boring			36 ft	Di	pth to Rock		36 ft	
Sampler	-1	ight (lbs)	_ Dro	p (in)	-	Groundwater Depth (ft) GZA Inspect	T	Init	ial <u>V</u>		pletion <u></u>	-	24 Hours 💆	
Drilling F	oreman Steve & Matthew					GZA Inspect	or -	Cath	nerine	rang	necked By	Ben	Alter	
Depth (ft)	Sample Des	scription		PID Reading (ppm)	Ele (f	MATERIAL SYMBOL	Number	Sa	Penetr. resist aldw Bl/6in G	N-Value (Blows/foot) 10 20 30 40			marks	
- 0 寸	Asphalt	<u> </u>			\top									
- 1 =	Medium dense brown SILT,	dry		0			4							
- 2 -	Hard brown CLAY, moist			0			RUN-1	38	,					
- 3 -				0										
. 4 -			•	0							30-1-4 1500	was c	ollected at 4'	' bg
5				0			RUN-2	36						
7 -			٠	0			J. B.							
- 8 -	Stiff dark brown CLAY, wet			0										
9 -				0			8						•	
- 10 -				0			RUN-3	₹ 8					-	
- 11 -				0										
- 12 -	Very stiff brown silty CLAY,	wet												
- 13 -	,			0			UN-4	F 84						
- 14 -				0			RUN	2 4						
- 15 <u>-</u> - - 16 -				0							20.1.4	le ver	collected at	16'
- 10 - - - 17 -			·	0							at 150		Wilected at	10
: ''	·			0]							

30-1

Sheet

2

2 of Location Project 25 Sherwood Lane Unimatic Manufacturing Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Sample Data PID Reading (ppm) N-Value (Blows/foot) Depth (ft) Elev (ft) Remarks Sample Description 10 20 30 40 20 Hard brown silty CLAY, wet 0 21 0 24 22 0 23 0 24 0 Medium dense brown medium to coarse SAND, wet 25 0 RUN-7 8 26 0 27 0 28 0 29 0 RUN-8 မှ 38 30 0 31 0 32 30-1-32 was collected at 32' bg at 1505 0 30-60000, the duplicate of 33 30-1-32, was collected at 32' 0 bg at 1520 RUN-9 G 34 8 0 35 0 36 0 30-1-36C was collected at 36' bg at 1510 37 38 39

GZA

GeoEnvironmental, Inc.

75418.2, UNIMATIC ISRA CLOSUREIGINTN 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:41:41 AM ... Report: Log - NJ-GZA_GEOTECHINICAL ...Template

30-2 **Boring Log**

1

2

Sheetof Location Project **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Hawk Drilling Company Not Available Drilling Method **Drilling Equipment** Date Started Date Finished **Direct Push** 1/26/10 1/26/10 Power-probe Final Boring Depth Depth to Rock Sampler 34 ft 34 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial V Completion T 24 Hours V Checked By Drilling Foreman Catherine Fang Ben Alter Steve & Matthew Sample Data PID Reading (ppm) Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description (ft) 10 20 30 40 0 Asphalt Medium dense dark brown SILT, some dark brown fine Sand, dry 0 J:\75400 TO 75599\75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:41:47 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT RUN-1 잆 0 3 0 0 Hard brown CLAY, wet at 9' bg 0 RUN-2 36 g 0 0 0 0 RUN-3 8 0 0 12 0 13 0 RUN4 G 8 0 15 0 16 0 Hard brown CLAY, saturated 17 0 RUN-5 42 B 18 0 19 0

GZA

GeoEnvironmental, Inc.

GZA GeoEnvironmental, Inc.

Sheet

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of 2

ā	roject						Location					Sheet 2 of 2
1	roject N	Jo	Unimatic Manufacturing				Client				vood Lane	
ł		ompany	12.0075418.20	1 . 15			Elevation ar	vi Dai	um		Manufacti	uring, Inc.
Ľ	Tilling C	Ompany	Hawk Drilling Company		<u> </u>		Lievation ar	T Dai	No	t Avai	lable	
1	Depth (ft) 20 —		Sample Description		PID Reading (ppm)	E (waterial symbol	Number	Type Recov.	T	A11/-1	Remarks
	21	·			0			9				
	22 -				0			RUN-6	- GB			
F E	23				0	-		1		-		W
	24 -			•	0							30-2-24 was collected at 24' b at 1220
	26	·			. 0			RUN-7	GP 36			30-2-26 was collected at 26' b at 1225
	27 -			: ,	0							
	28 - 29 -				0							30-2-28 was collected at 28' b at 1228
	30				0			RUN-8	GP 12			
	31 -				0							
	32 -		•		0			6-1				
	33 -				0			RUN-9	GP 12			30-2-34 was collected at 34' b
	35											at 1230
-	36											
-	37 -			. ;				,				
	38 -											
	39 -											
	41 -	-										

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GZA GeoEnvironmental, Inc.

Sheet

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2

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Date Started Date Finished **Drilling Equipment** Drilling Method 1/27/10 1/27/10 Power-probe **Direct Push** Depth to Rock Sampler Final Boring Depth 32 ft 4' acetate liner Groundwater Weight (lbs) Drop (in) Sampler Hammer Completion ____ Initial ∇ 24 Hours V Depth (ft) GZA Inspector Checked By **Drilling Foreman** Catherine Fang Ben Alter Steve & Matthew Sample Data PID Reading (ppm) Depth (ft) N-Value (Blows/foot) Elev Remarks Sample Description (ft) 10 20 30 40 0 0 Asphalt Medium dense bown fine to medium SAND, wet at 0 INTRADO TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINTN12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:41:55 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT g) 20 0 3 0 0 0 0 0 0 0 RUN-3 28 0 0 12 0 13 0 RUN-4 <u>B</u>) 20 0 0 Medium dense bown fine to medium SAND, saturated 16 0 0 RUN-5 36 잉 18 0 0

roject		Unimatic Manu	ufacturing				Lo	cation			25 \$	Sherw	ood Lan	•			
roject No	0.	12.0075418.20					Cli	ent						turing, In	D. ·		
rilling Co	ompany	Hawk Drilling		•		_	Ele	evation an	d Da	tum		Avail		3,,			-
			<u> </u>		Ę,			축권			Sa	mple Da	ata				
Depth (ft)		Sample	Description		PID Reading (ppm)		Elev. (ft)	MATERIAL	Number	Туре	Recov.	Penetr. resist BI/6in	N-Value (Blows/foot)		Rem	arks	
20		* 		4.	0				-		Ē	-	10 20 30 40				
21 -					0							'					
=					ľ				9-								
22			,		0		٠,		RUN-6	GP	48						
23 -					0								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
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24	Mediu	m dense brown n	nedium to coar	se SAND,	0									30-3-2 at 100	4 was c	ollected a	at 24'
25 =	some	brown Clay, satu	rateo		0								To a special state of the state	aciou	·		
}		•	• • •		"				-7				,				
26 -		•	•	7	0		٠		RUN-7	g)	84						
27																	
]		•		•	0		<i>:</i>							1.			
28 -				•	0				\vdash			,					
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30 -		•			0	: '	•		RUN-8	GP	18						
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30-4 **Boring Log**

Sheet of 2

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Date Finished **Drilling Equipment Date Started** 1/27/10 1/27/10 Power-probe **Direct Push** Final Boring Depth Depth to Rock Sampler 36 ft 36 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Drop (in) 24 Hours V Initial 🔽 Completion T Checked By **Drilling Foreman** Catherine Fang Ben Alter Steve & Matthew Sample Data PID Reading (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Recov. (in)
Penetr. resist Sample Description 10 20 30 40 0 Asphatl Loose brown medium SAND, dry 0 1.75400 TO 7559975418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:42:04 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT RUN-1 24 0 0 0 0 Grey clayey SILT, dry RUN-2 30 0 0 0 0 Medium dense brown silty SAND, wet RUN-3 ဗ 10 0 0 12 0 13 0 RUN4 GБ 8 0 15 0 30-4-16 was collected at 16' bg Medium dense brown medium to coarse SAND, 0 at 1102 some brown Gravel, saturated 17 0 RUN-5 ြင 8 18 0 0

GeoEnvironmental, Inc.

Sheet

2 of 2 Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available PID Reading (ppm) Sample Data Depth (ft) ⊟ev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 20 Hard brown CLAY, saturated 21 0 RUN-6 24 22 0 23 0 24 Medium dense brown medium to coarse SAND, some brown Gravel, saturated 30-4-24 was collected at 24' bg 0 25 0 RUN-7 24 26 0 27 0 28 0 29 0 RUN-8 30 5 0 31 0 32 30-4-32 was collected at 32' bg 0 at 1108 33 0 RUN-9 B 8 34 0 35 0 36 0 30-4-36C was collected at 36' bg at 1110 37 38 39

ort: Log - NJ-GZA_GEOTECHNICAL ...Template 418.2, UNIMATIC ISRA CLOSUREIGINT112.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:42:06 AM ... GZA GeoEnvironmental, Inc.

Boring Log 30-5

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of

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Project No.	Unimatic Manufacturing 12.0075418.20			Client				Sherv matic			turing, Inc	
Orilling Cor	pany Hawk Drilling Company			Elevation a				Avail				
Orilling Equ	Power-probe Drilling Method Direct Pus	h		Date Starte				26/10		D	ate Finished	1/26/10
Sampler	4' acetate liner			Final Boring		th		34 ft		D	epth to Rock	34 ft
Sampler Ha	•	p (in)		Groundwate Depth (ft) GZA Inspec	er		Initi	al <u>V</u>	8		npletion	_ 24 Hours <u>\\ \</u>
Drilling For	man Steve & Andrew	1 = 1		GZA Inspec	ctor			erine		g C	hecked By	Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	E (MATERIAL SYMBOL	Number	Туре	_	Penetr. resist Bl/6in	N- (Blo	Value ws/foot)		Remarks
- 0 +	Asphalt Loose brown medium SAND, wet at 8' bg	0			_							
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- 2 -		0	Ì		RUN-1	g G	S					
- 3 -		0										
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17		0								4.1.1.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.		
<u>.</u>					RUN-5	GP GP	\$					
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Unimatic Manufacturing Project No. 12.0075418.20 Drilling Company Hawk Drilling Company Depth (ft) Sample Description Client Unimatic Manufacturing Elevation and Datum Not Available Sample Data Sample D	ncturing, Inc.
Depth (ft) Sample Description Sample Description Depth (ft) Sample Description Depth (ft) Sample Description Depth (ft) Depth (ft) Sample Description Depth (ft) De	Remarks
Depth (fit) Sample Description S	σι)
20	
- 22 -	
24 – - 25 –	
	30-5-28 was collected at 28' at 1600
- 29 - 0 0 0 0 0 0 0 0 0	
- 32 - 0 0 0 0 0 0 0 0 0	
34 - 35 - 0	30-5-34 was collected at 34' at 1605
35	
- 37 - 3 - 38 - 3	
- 39 -	
- 40 - - 41 -	

6418.2, UNIMATIC ISRA CLOSUREIGINT1/2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:42:14 AM ... report. Log - NJ-GZA_GEOTECHNICAL ...Template

GZA GeoEnvironmental, Inc.

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Project No		12.007	'5418.2	20						- 1	ient	- <u></u>		Unir	natic	Man	ufa	ctu	ring,	Inc.			_
Drilling Co		Hawk I	Drilling	Comp	any					- 1	evation an		tum	Not	Avai	able							
Drilling Eq	uipment	Power-	-probe	Dr	illing Met	thod Di	rect P	ush		- 1	ate Started			1/2	26/10				Finis		1/2	26/10	
Sampler		4' acet	ate line	er						- 1	nal Boring		th 		34 ft				th to F			34 ft	_
Sampler I		•		- Weig	ht (lbs)		<u>- </u>	Prop (in		D	roundwate epth (ft)	r		Initia	al <u>V</u>	8			etion		- 12	24 Hours	Ī
Drilling Fo	reman	Steve	& Andr	ew				·		G	ZA Inspec	tor			erine		g	Che	cked E	3y	Ben /	Alter	
Depth (ft)		:	Sample	e Desc	ription			PID Reading		Elev (ft)	MATERIAL SYMBOL	Number	Туре		Penetr resist Bl/6in aldu						Ren	narks	
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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** PID Reading (ppm) Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 20 0 Medium dense brown medium to coarse SAND, saturated 21 0 RUN-6 8 22 0 23 0 24 0 25 0 RUN-7 26 0 27 0 28 30-6-28 was collected at 28' bg at 1430 0 29 0 RUN-8 8 30 0 31 0 32 0 RUN-9 33 Э 0 34 30-6-34 was collected at 34' bg 0 at 1432 .35 36 37 38 39

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Boring Log

AST-2D

Sheet

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1 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Hawk Drilling Company Not Available Drilling Method **Drilling Equipment Date Started** Date Finished **Direct Push** 10/15/09 10/15/09 Geoprobe Final Boring Depth Depth to Rock Sampler 24 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Drop (in) Sampler Hammer Weight (lbs) Initial 💟 Completion **T** 24 Hours 🔽 Drilling Foreman Checked By **Brett Pierson** Catherine Fang Ben Alter Sample Data Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description (ft) 0 FILL: loose grey fine to medium SAND, some grey coarse Gravel, dry 1 0 J:\75400 TO 75599\75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:42:29 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT RUN-1 გ 0 3 0 FILL: brown coarse GRAVEL, some brown fine to 0 medium Silt, dry 0 RUN-2 읪. 0 0 0 Loose brown fine to medium SILT, some brown fine Sand, dry 0 <u>අ</u> [10 0 0 0 0 RUN4 36 0 15 Ó AST-2D-16 was collected at 0 16' bg at 1110 RUN-5 18 8 18 0 0

GZA

GeoEnvironmental, Inc.

Boring Log AST-2D

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Project		Unima	tic Manu	facturing						1	cation			25 S	Sherw	ood Lane	i			
Project No			75418.20							- 1	ent		. (Manufacti	uring, Inc			
Orilling Co	mpany			Company						Ele	evation ar	nd Dat	ımi '	Not	Avail	able				
Depth (ft)				Descriptio	n			PID Reading (ppm)		Elev. (ft)	NATERIAL	Number	90,	_	Penetr. resist Bl/6in Bl/6in			Rer	narks	
- 20 -	Loos	e brown 1	ine to me	dium SILT,	some	brown		0	-			₹	-	2	<u>~</u>	10 20 30 40	· · · · · · · · · · · · · · · · · · ·		<u>.</u>	* .
21 -	fine S	Sand, we	l	٠.			٠	0			<u> </u>					The state of the s				
22 -							Δ̄	,			· · · · ·	RUN-6	g B	84	:	ANAMONIA PARAMENTA MATERIA PARAMENTA				
23								0	.:			E				THE STATE OF THE S				
24	:				· ·									-			AST-20)-24C	was colle	cted a
25 –		. "															24' bg :	at 113()	
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Boring Log

EPA-1

GZA GeoEnvironmental, Inc.

of

Project	Unimatic Ma	anufacturing					cation			25 S	herw	ood L	.ane				
Project N	12.0075416.	.20					ent			Unin	natic	Manu	factu	iring, Inc.			_
Drilling C	mawk Drilling	g Company				- 1	vation an		tum	Not:	Avail	able	15.7	a manter			
	Geoprobe	Drilling Method	Direct Pu	ısh		_1_	te Started			11/1	6/09			te Finished	11/1	6/09	
Sampler	4' acetate lin	ner	10	(!=\		- 1	al Boring		.n 		12 ft		<u> </u>	pth to Rock		-	
Sampler Drilling Fo		- Weight (lbs)	<u> </u>	rop (in)		De	oundwate pth (ft) 'A Inspect	toe	1	Initia		<u>- l</u>		ecked By		4 Hours <u>Y</u>	<u></u>
Drilling F	Brett Pierson	n		1.00		1 62	A IIIspeci	1	Α	ndre	ew Ho	uang	Cili	ecked by	Ben /	Alter	_
Depth (ft)	,	le Description		PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist ad Bl/6in	N-Va (Blows	/foot)		Rem	arks	
- 0 -	Fine SAND, dry																
- 1 -	Asphalt and gravel, o	coarse Sand, and yello	ow Clay,	0	ľ		₩					-		EPA-1	was coi	lected at	1'
= =				"			₩₩					and the second s	***************************************	0945			
2 -				0			****	-					Marin				
: :							₩₩	RUN-1	G G	48	,						
- 3 -				0			₩	<u>.</u>						EPA-3 9	was col	lected at	3
	Yellow Clay packed (gravel and clay, dry		-1		1	⋘							1 3340			
- 4 -		•		0			₩₩							1			
5 - 5				0			₩₩									•	
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6 -	Clay and coarse San	nd. and Gravel dry		•													
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ļ <u>1</u>					1		₩₩	RUN-2	B	24	7					_	
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- 9 -							⋘	1			•						
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10 -	Stiff brown CLAY, dr	v		┦。			 	-		\square						•	
	Sun blown CLAT, O	J						۳						1			
_ 11 -				o	:		<u> </u>	RUN-3	g B	12							
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Boring Log EPA-2

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Project				По	ocation					Sneet	1 01 1
Charles No.	nimatic Manufacturing	··.	 	·	lient	-			ood La		
Drilling Company	2.0075418.20	 	·		levation and	d Date				cturing, Inc	C
Drilling Continuent	awk Drilling Company Drilling Methods	od		ı	ate Started		N	ot Avail		Date Finished	
Comples	eoprobe	Direct Pus	sh	- 1	nal Boring			/16/09		Depth to Rock	11/16/09
Sampler Hammer	' acetate liner Weight (lbs)	I Dec	op (in)	•				12 ft	-		
Delling Foreman		- 010	~ ("")	⊢ğ.	roundwater epth (ft) ZA Inspect	or		itial <u>V</u>		ompletion Checked By	_ 24 Hours <u>V</u> _
B	rett Pierson		<u></u>	_اح		J1		drew H		Oriented by	Ben Alter
Depth (ft)	Sample Description		PiD Reading (ppm)	Elev. (ft)	MATERIAL SYMBOL	Number		Penetr. resist Bl/6in	N-Value (Blows/fo 10 20 30	j i	Remarks
- 0 - FILL: bla	ck to dark brown coarse Sand	d and gravel,					1			Trans your	· · · · · · · · · · · · · · · · · · ·
- 4											d
FILL: bro	wn sand and clay, dry		0	'			M			EPA2	-1 was collected at 1' bg 6
- 2 -						_					•
: ⁻	2.4		0			RUN-1	g \ 4	:			
3 -		,	0			ఠ	_N			FPA2	-3 was collected at 3' bg
= =		•					N			at 101	7
- 4 -							N				-
<u> </u>							N				
5 FILL: sar	nd and gravel, moist		-	1	*****	$\vdash \vdash$	-	+-			
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- 6 -			0 .							-	
]	•	***	• *						-	4	
7 FILL: da	y and gravel, dry		78			2	. ا			1	• •
				,		RUN-2	₽ 2				
- 8 -			13	· .		-					-8 was collected at 8' bg
: [•									at 101	•
9 -				:							
- 10								<u> </u>			
- ' FILL: da	y sand and little gravel, dry		3.2								•
<u>:</u>		:				2 2	ع الع	, [
: '	· ' .	·)				2	ج اق].			:
- 12	•						Ν_			EDAG	12 was collected at 12'
3										bg at	12 was collected at 12°
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Boring Log

EPA-3

Sheet

of

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Date Finished Drilling Equipment Drilling Method Date Started **Direct Push** 11/16/09 11/16/09 Geoprobe Depth to Rock Final Boring Depth Sampler 12 ft 4' acetate liner Weight (lbs) Groundwater Sampler Hammer Drop (in) 24 Hours 🔽 Initial 🔽 Completion **T** Depth (ft) GZA Inspector Checked By Drilling Foreman Andrew Huang Ben Alter **Brett Pierson** Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 0 FILL: asphalt and sand, dry EPA-3-1 was collected at 1' bg 0 FILL: sand and gravel, dry at 1048 !!/78400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:42:45 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Tempiste TEMPLATE.GDT 0 RUN-1 8 3 EPA-3-3 was collected at 3' bg 6.3 at 1050 0 FILL: sandy Clay, little gravel, dry 0 0 238 8 EPA-3-8 was collected at 8' bg 86 at 1053 32 0 0 FILL: fine Sand, dry RUN-3 11 0 12 EPA-3-12 was collected at 12' 0 bg at 1055 15 16 17 18

GeoEnvironmental, Inc.



EPA-4 **Boring Log**

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of

1 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available **EPI Drilling Drilling Equipment** Drilling Method Date Started Date Finished **Direct Push** 11/18/09 11/18/09 Geoprobe Sampler Final Boring Depth Depth to Rock 15 ft 5' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion T 24 Hours V Checked By **Drilling Foreman** Sandeep Singh **Bob Fleming** Ben Alter PID Reading (ppm) Sample Data Elev (ft) Depth Remarks Sample Description (ft) 0 Concrete Red Brown f-m SAND, some silt, some Gravel, EPA-4 collected at a depth of 0 0.5-1.0' bg at 0915 0 RUN-1 89 42 EPA-4 collected at a depth of 0 2.5-3.0' bg at 0920 0 Red Brown f-m SAND, some Silt, some Gravel, 0 trace Fill, dry 0 0 RUN-2 GB 54 EPA-4 collected at a depth of 0 7.5-8.0' bg at 0925 0 10 Red Brown f silty SAND, some Gravel, trace Fill, 0 dry 0 12 0 RUN-3 EPA-4 collected at a depth of 8 11.5-12.0' bg at 0935 13 0 0 15 16 17 18

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Boring Log EPA-5

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Project Project N	Unimatic Manufacturing				cation ent					vood L		
Drilling C	12.00/0416.20		•	Ek	evation and	Da	4	, .	Avail		iaci	uring, Inc.
	EPI Drilling Drilling Method	uch.		Da	ite Started				18/09		Da	ate Finished 11/18/09
Sampler	Geoprobe Direct Pt 5' acetate liner	1911		Fir	nal Boring	Dep	th	-11/	15/03 15 ft		De	epth to Rock
Sampler		rop (in)	· _	Ģr	oundwater			Initi	al 🔽		Com	pletion 24 Hours
Drilling F	Bob Fleming			G	A Inspect	or		٠		Singh	CI	necked By Ben Alter
····	Dob Floring	Bull			₹പ				mple D	ata		
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	1ype	(in)	Penetr. resist Bl/6in	N-Va (Blows/	foot)	Remarks
- 0 -	Concrete	10	\vdash	-		z		<u>«</u>		10 20 3	30 40	
	Red Brown f-m SAND, trace Silt, some Gravel,	\dashv										
- 1 -	some Cobbles, dry	0										EPA-5 collected at a 0 0.5-1.0' bg at 1010
- 2 -		0				_						
						RUN-1	8	42		To the same of the		
- 3 -		0				œ				de appendix	The second second	EPA-5 collected at a
	·									101111111111111111111111111111111111111		2.5-3.0' bg at 1014
- 4 -		0							1			
- 5 -	Red Brown f-m SAND, trace Silt, some Gravel,	,					\vdash	<u> </u>	ļ			
	some Cobbles, construction fill, dry									W AND THE STREET		
6 -		0					1					-
		_]-										
- 7 -	Red Brown fine SAND, trace Silt, loosely packed, dry	0				RUN-2	88	42				
- 8 -		0				조	ľ					EPA-5 collected at a
												7.5-8.0' bg at 1018
- 9 -		0										
- 10 -	•					L	<u> </u>					
		0										
11 -	·	1.1		.								
- 12 -		2.7				RUN-3	GB	8				EPA-5 collected at a 11.5-12.0' bg at 1020
13 -	·	0.2				₹	۳	۳				
		0.2									- Marie To Torontales	
14 -		0.4										Í
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Boring Log EPA-6

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Project	Unimatic Manufac		Location 25 Sherwood Lane													
Project No	12.00/5418.20					Client Unimatic Manufacturing, Inc.										
Drilling Co	ePI Drilling	,				Elevation and	d Dat	umi (Not	Avail	able					
Drilling Ed	quipment Geoprobe	Drilling Method Dir	rect Pus	h		Date Started	Date Started 11/18/09 Date Finished									
Sampler	5' acetate liner	· · · · · · · · · · · · · · · · · · ·				Final Boring	Dept			15 ft		De	pth to Rock	11/18/09		
Sampler I	Hammer W	eight (lbs)	Dro	p (in)		Groundwater	r	T	Initia	al 🔽		Comr	oletion 👤	24 Hours	T	
Drilling Fo	oreman				-								oakad Du		<u>.</u>	
	Bob Fleming	·		T & T		<u> </u>				nple Da			<u> </u>	Ben Alter		
Depth (ft)	Sample De	scription		PID Reading (ppm)	EI (ev. WATERIAL SYMBOL	Number	Type	$\overline{}$	Penetr. resist	N-Val (Blows/	foot)		Remarks		
╞╴°╶ ┤	Concrete		1 1		_	2.82	_									
[]	Daniel Fac CAND Ci	th ages Oakhina	<u> </u>	1 1	1	مستم	:		.]							
F 1 🕇	Brown fine SAND, some Si some Gravels, loosely pack	it, some Cobbles, ked	• '	. 0	1				ł				EPA-6 c	ollected at a	depth of	
= =		•			-				ļ				0.5-1.0	bg at 1220		
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= =		¥.					RUN-1	ප	8							
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‡ ‡			. •											,		
5 🕂	Greyish Brown silty SAND,	some Gravels		0		100		_			.					
= =	Construction Fill at 7.5' bg	outio Ciavois,						-			.					
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= =									l					, ,		
- 7 =			. *	0										•		
= 1							RUN-2	89	4							
8 -	Red Brown medium to coal packed	rse silty SAND, tig	gnuy				교	۱۳	`							
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: " ‡	Red Brown medium to coal cobbles, trace Gravels, little	rse SAND, trace		0									[
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Boring Log FT-4C

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Sheet

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D-1-101	Unimatic Manufacturing										vood L				
Project No.	12.0075418.20			Client Unimatic Manufacturing, Inc. Elevation and Datum Not Available											
Drilling Company	EPI Drilling	16 00 11 1		·	. 1			tum	Not	Avai	able	15-	a Galabad		
Drilling Equipment	Geoprobe	Drilling Method	Direct	Push		ate Started			10/	26/09		_1	te Finished pth to Rock	10/26/09	
Sampler	5' acetate liner				- 1	nal Boring		ın	, .	20 fl		<u>-</u>			
Sampler Hammer		Weight (lbs)	-	Drop (in)	De	roundwate epth (ft)			Initi	al <u>V</u>			oletion <u></u>	24 Hours <u>Y</u>	
Drilling Foreman	AJ & Eddie				G,	ZA Inspect	or		San	deep	Singh	Ch	Checked By Ben Alter		
Depth				ading (n	Elev.	일 등	١			mple D		lue	-	Damada	
(ft)	Sample D	escription		PID Reading (ppm)	(ft)	MATERIAL SYMBOL	Number	Type	(in)	Penetr. resist Bl/6in	N-Va (Blows			Remarks	
O - Concre	ete					1	Z	-	u.		10 20 3	30 40			
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- 1 - No Re	covery			0									4	. '	
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Grave	el, trace Cobbles	,,, .				[1]	1			}					
16				0									Soil sa	mple collected at d	depth
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F 17 -				0			4	m							
E i		•		.		1111	RUN4	89	8				,		
18 –				0		1111	-								
13 - 13 - 14 - 15 - Red E Grave					:-	[][•
5 19 T Grey	sh Brown f-m silty	SAND, trace Cla	y, trace	o									Soil sa	mple collected at o	deptr
⊕ T	el, trace Cobbles an	o saturated				1111	:]						of 19.5	-20.0 ft @ 1545	

Boring Log FT-6A

Sheet

of

2

Project	Offinatic Manuacturing						Location 25 Sherwood Lane									
Project I		12.0075418.20				Client	•									
Drilling (Company	EPI Drilling		-	· · · · · · · · · · · · · · · · · · ·	Elevation and	d Da	4		Avai			turing, Inc.			
Drilling E	quipment	Geoprobe Drilling Metho	^{od} Direct	Push		Date Started	1			22/09		D	ate Finished	10/22/09		
Sampler		5' acetate liner				Final Boring	Dept	:h		24 fl		D	epth to Rock	-		
Sampler	Hammer	Weight (lbs)	-	Drop (in)	-	Groundwater	r		Initi	ial <u>V</u>	15	Con	npletion 🕎	_ 24 Hours	<u>v</u> -	
Drilling F	oreman	AJ & Eddy				Depth (ft) GZA Inspect	or	S	Sano	deep	-,	Singh Checked By Ben Alter				
		1		ding					Sample Data							
Depth (ft)		Sample Description	•	PID Reading (ppm)	[(t) .val	Number	Type	(in)	Penetr. resist Bl/6in	N-Va (Blows			Remarks		
F 0 -	Conc	rete					z		-	a	10 20	30 40	<u>' </u>	· ,	•	
<u> </u>	Light	Brown m-c SAND with Cobbles														
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	j .			"			RUN-1	8	36							
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- 18 -				0.7			집	٦								
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‡ }									- 1				Soil sam	nple collected a	t 20 'ha	

A18.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:46:44 AM ... Neport Log - NJ-GZA_GEOTECHNICAL ...Template

175400 TO 7. 641.

Boring Log

FT-6A

Sheet

of

2

2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **EPI Drilling** Sample Data PID Reading (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 20 at 1355 Brown f-m SAND with Cobbles, saturated at 23 Ö 21 0 GB 8 22 0 23 0 Soil sample collected at 24 bg at 1405 0 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

1/175400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/GINT/12:0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:46:47 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

GZA

GeoEnvironmental, Inc.

FT-7A **Boring Log**

Sheet

of

1

Location Project **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **EPI Drilling** Date Finished **Drilling Equipment Drilling Method** Date Started **Direct Push** 10/23/09 10/26/09 Geoprobe Depth to Rock Final Boring Depth Sampler 20 ft 5' acetate liner Sampler Hammer Groundwater Weight (lbs) Drop (in) Initial 🔽 Completion **T** 24 Hours V Depth (ft)
GZA Inspector Drilling Foreman Checked By Sandeep Singh Ben Alter AJ & Eddie Sample Data PID Reading (ppm) Depth Elev (ft) N-Value (Blows/foot) Remarks Sample Description (in) (ft) 0 Concrete Grevish Brown f-m SAND, some cobbles, some 0 Gravels, some Fill, dry 0 RUN-1 \$ 0 0 Red Brown f-m SAND, trace cobbles, trace Gravels, dry 0 0 RUN-2 GB 8 Soil sample collected at depth 0 of 7.5-8.0 ft @ 0900 Light Brown f-m SAND, saturated at 13' bgs 0 0 0 54 0 0 15 Light Brown f-m SAND, saturated 0 16 Contingency soil sample collected at depth of 15.5-16.0 0 ft @ 0910 17 0 RUN-4 8 18 0

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18.2, UNIMATIC ISRA CLOSUREIGINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:46:54 AM ...

Boring Log FT-10A

GZA GeoEnvironmental, Inc.

Sheet 1 of 2

Project No. 12,0075418.20 Clear Committee Co	Project	Unimatic Manufacturing			- 1	cation			25 8	Sherv	vood L	an	10
Description Description		12.0075416.20	1				Unii	natic	Manu	ıfac	cturing, Inc.		
Sempler Simp		EPI Dhiing		Not Available									
Sample ritarriner Sample frammer Weight (be) Drop (h) Concrete Concrete Concrete No Recovery Berown m-c SAND, some Gravets, trace Cobbles, trace Fill Red Brown c salty SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, little molist Red Brown c SAND, trace Gravets, some Silk R		Geoprobe Direct Pus			Date Started 10/23/09 Date Finished 10/26/09								
Deptin (ft) Sample Description		5' acetate liner					h		20 ft			Depth to Rock	
Depth Sample Description Province Sample Description Sample Description Province Province Sample Description Province		-1	IDe	oth (ft)			Initia	al 💆					
Depth (t) Sample Description Sample Descripti	Drilling Fo	reman AJ & Eddie	GZ	A Inspect	or	S	and	leep	Singh	ľ	Checked By Ben Alter		
Concrete No Recovery O Recovery O Red Brown m-c SAND, some Gravels, trace Cobbles, The strate of the strate	Depth (ft)		ID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Jumper		Sa	mple D	ata	alue /foo	ot) Nemarks
No Recovery	- o 	Concrete	1								10 20	Ĩ	
Brown m-c SAND, some Gravels, trace Cobbles, trace Fill Red Brown ri-c SAND, trace Gravels, little moist Red Brown ri-c SAND, trace Gravels, little moist, tightly packed Red Brown ri-c SAND, trace Gravels, little moist, tightly packed Red Brown ri-c SAND, trace Gravels, little moist, tightly packed Red Brown ri-c SAND, trace Gravels, little moist, or tightly packed Red Brown ri-c SAND, trace Gravels, little moist, or tightly packed Red Brown ri-c SAND, trace Gravels, little moist, or tightly packed Red Brown ri-c SAND, trace Gravels, little moist, or tightly packed Red Brown ri-c SAND, trace Gravels, little moist, or tightly packed Red Brown ri-c SAND, trace Gravels, little moist, or tightly packed	<u> </u>	No Recovery	١,			****							
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Brown m-c SAND, some Gravels, trace Cobbles. 7 8 9 10 11 12 Red Brown c silty SAND, trace Gravels, little moist 13 Red Brown ac SAND, trace Gravels, little moist, tightly packed 16 Red Brown c SAND, trace Gravels, little moist, tightly packed 17 Red Brown c SAND, trace Gravels, some Silt 0 0 17 Red Brown c SAND, trace Gravels, some Silt 0 0 18 19 20 30 30 30 30 30 30 30 30 30	2		0				- F	3B	6				
Brown m-c SAND, some Gravels, trace Cobbles, trace Fill 7 8 9 10 11 12 Red Brown m-c SAND, trace Gravels, little moist of 13.0-13.5' at 1025 Soil sample collected at of 13.0-13.5' at 1025 Red Brown c SAND, trace Gravels, little moist, tightly packed 16 Red Brown c SAND, trace Gravels, little moist, tightly packed 17 Red Brown c SAND, trace Gravels, some Silt 0 2 3 3 4 4 5 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8	3 -		0				∝				and an embed of private		
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Red Brown c silty SAND, trace Gravels, little moist 13 - 14 - 0 15 Red Brown m-c SAND, trace Gravels, little moist, tightly packed 16 - 17 Red Brown c SAND, trace Gravels, some Silt 18 - 0 10 - 15 Red Brown c SAND, trace Gravels, little moist, or tightly packed 19 - 18 - 0 10 - 17 Red Brown c SAND, trace Gravels, some Silt 10 - 18 - 0 11 - 18 - 0 12 - 18 - 0 13 - 18 - 0 14 - 18 - 0 15 - 18 - 0 16 - 0 17 Red Brown c SAND, trace Gravels, some Silt 10 - 0 11 - 0 12 - 0 13 - 0 14 - 0 15 - 0 16 - 0 17 - 0 18 - 0 18 - 0 18 - 0 18 - 0 18 - 0 19 - 0 10 - 0 10 - 0 11 - 0 11 - 0 12 - 0 13 - 0 14 - 0 15 - 0 16 - 0 17 - 0 18 - 0 18 - 0 19 - 0 10 -	10		0										
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Soil sample collected at of 13.0-13.5' at 1025 Red Brown m-c SAND, trace Gravels, little moist, tightly packed 16 - 17 - Red Brown c SAND, trace Gravels, some Silt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12		0				۶- ۲-	88	54			***************************************	
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GeoEnvironmental, Inc.

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roject No.	12.0075418.20		Cli	ent						cturing, Inc.					
rilling Company		•	Ele	vation an	d Dat	1100			and the second second	ning, mo	•				
<u> </u>	EPI Drilling		٠ــــ	r :	r		NOT Sar	Avail	able ta						
Depth (ft)	Sample Description ଅଧିକ	(mdd)	Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40			narks			
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GZA GeoEnvironmental, Inc.

Boring Log FT-19

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(mdd) 0 0 0 0		Gr De Gz	oundwater pth (ft) A Inspecto TWATERIAL SAVIES	Number	Туре	Sand San (u)	il <u>∑</u> leep nple D	Singh ata N-Va (Blows	Cor Cor cor	mple Chec	etion <u></u>	Ben Alter
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0											collected	ncy soil sample at depth of 13.0-
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					RUN-3 RUN-2	RUN-3 RUN-2	RUN-3 RUN-2 GB GB	RUN-3 RUN-2 GB GB	RUN-3 RUN-2 GB GB	RUN-3 GB GB GB	RUN-3 RUN-2 GB GB GB	Soil samp of 8.0-8.5 RINN-3 Continger collected ft @ 1240



Boring Log FT-20

Sheet

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of 1

Project		11-1				_	Location	-		~	<u> </u>					
Project N	No.	Unimatic Manuf				-	Client					ood La		•		
ı	Company	12.0075418.20			 	-	Unimatic Manufacturing, Inc. Elevation and Datum Not Available									
	quipment	EPI Drilling	Drilling Method		·		Date Started		-,				10	Date Finished 49/09/09		
Sampler		Geoprobe	Direc	t Pus	<u>h</u>		Final Boring			10/	22/09			20/22/09 Depth to Rock		
	Hammer	5' acetate liner	Weight (lbs)	ID _{ro}	p (in)		Groundwater				10 ft		ᆚ_	<u> </u>		
Drilling F			vveignt (ibs)		· · · · · · · · · · · · · · · · · · ·		Depth (ft) GZA Inspect			Initi	al <u>V</u>			npletion 24 Hours V		
Drilling F	Oreman	AJ & Eddie			<u></u>		GZA Inspect	.Or ·		Sano	deep :	Singh		Ben Alter		
Depth (ft)		Sample D	Description		PID Reading (ppm)	EI (MATERIAL SYMBOL	Number	Гуре		Penetr. resist Bl/6in alda	N-Vali (Blows/I	oot)	· 1		
- 0 -	Concr	ete	· · · · · · · · · · · · · · · · · · ·		╬┼	+		Z		<u> </u>		10 20 3	0 40	0		
1 -	Red B Grave	rown f-m silty SAN	ID, some Cobbles, Sor	me	0											
	1		•								* .					
- 2 -	1			,	0			7		_			i			
			•					RUN-1	GB	48				Soil sample collected at depth		
F° 3]	•			0							.		of 2.0-2.5 ft @ 1435		
Ė , =	1] .	1										
‡	1	:			0											
5 -	1			·												
Ė .	Brown Grave	ı f-m silty SAND, tr. ıls, drv	ace Cobbles, trace	;	0											
- 6 -				100										1		
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7 -	•							7	-							
				4				RUN-2	GB	48				1		
- 8 -		•			0			æ				-		Contingency soil sample FT-20		
; :	1		•											at depth of 7.5-8.0 ft @ 1440		
9 -]			•	0											
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5418.2, UNIMATIC ISRA CLOSUREIGINTN2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:43:19 AM ... REPORT LOG - NJ-GZA_GEOTECHNICAL ... Template

GZA GeoEnvironmental, Inc.

Boring Log FT-21A

Sheet

of

of

Project N	12.0075416.20		Client			Uni	matic	Manufa	ecturing, Inc.
Drilling C	Company EPI Drilling		Elevation		atum		Avail		
	quipment Geoprobe Drilling Method Direct P	ush	Date Sta				18/09		Date Finished 11/18/09
Sampler	5 acetate liner		Final Bor		pth		20 ft	, ,	Depth to Rock
l .	-1	Drop (in)	Groundw Depth (ft)		Initi	al <u>V</u>	C	ompletion 24 Hours
Drilling F	oreman Bob Fleming & Eddie		GZA Ins	ector			deep S		Checked By Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	Elev. (ft) MATERIAL	Number	Type	$\overline{}$	Penetr resist Bl/6in gd aldw	N-Value (Blows/for	ot)
F º =	Concrete				\top				
<u> </u>	Light Brown f silty SAND, some Cobbles, some	-							
Ė :	Fill, Some Gravels	0							
- 2 -	·]]_					
Ē :					88	42			
3 -	·	0		~					
<u> </u>									
- 4 -		0					•		
5 -	Brown m-c silty SAND, trace clay, compacted	_ 0		11					
	turning Red Brown in color at 8' bgs								
6 -		0							
F 7				11.					
		0		RIN 2	gg GB	55	1		
- 8 -	•	78							Collected FT-21A-7.5
E :									of 7.5-8.0 ft @ 1145
- 9 -		144							
E . :	·				1				
- 10 -		337			+	T			
- 11 -	·	224			1				
12 -		_		[]					
- 12 -		173		N N	88	09			
13 -	Red Brown c SAND, some Silt	137		ā					
E		'3'							
2 3 4 5 6 7 6 7 6 7 6 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7		2.1							
E			1 🔯						
15		1.2		$^{\prime}$		+-			
<u> </u>									
_ 16 -	1.	1.3							Collected contingency
E :	1								Collected contingency FT-21A-15.5 at depth 15.5-16.0 ft @ 1200
17 -		1.1							
E :				Q N	8	8			
_ 18 -		0		<u>`</u>					
19 -									
· 40 -	1 .		1 10.300		1 .	1	1	1	1 1

Boring Log

Sheet

of

Project		Unimatic Manu	facturing				T	ocation			25 \$	Sherv	ood L	ane	
Project N	No.	12.0075418.20				ı	ď	Client			Uni	matic	Manu	facti	uring, Inc.
Drilling C	Company	EPI Drilling				٠.	E	Jevation and	d Da			Avai			
Drilling E	quipment	Geoprobe	Drilling Method	Direct Pus	.h			Date Started				23/09		Da	ite Finished 11/16/09
Sampler	. •	5' acetate liner					F	inal Boring	Dept	h		20 ft		De	pth to Rock
Sampler	Hammer		Weight (lbs)	Dro	p (in)		19	Groundwater Depth (ft)			Initi	al 🔽		Comp	pletion Y 24 Hours Y
Drilling F	oreman	AJ, Bob Flemin	na & Eddie				1	GZA Inspect	or		Ь		Singh	Ch	Ben Alter
	T	7.0, 505 (1011111	ig a Ladio		<u>E</u>			رړ		`		mple D			
Depth (ft)		· · · · · · · · · · · · · · · · · · ·	Description		PID Reading (ppm)		Elev (ft)) MATE	Number	Туре	Recov.	Penetr. resist BI/6in	N-Val (Blows/ 10 20 3	foot)	Remarks
; ;	Concr	ete													
E 1 =	Yellov	v f SAND, some G	Fravels, some Col	bbles, dry	1			***							
Ė ' 3	•				0										
E 2 -]								_						
<u> </u>]	T			0				RUN-1	GB	77				
L 3 -					0				조						
			_		١								The state of the s		·
- 4 -			•		0										
					Ì						٠.				•
- 5 -	Red B	Brown f-m silty SAI	ND trace Gravels	trace	0							<u> </u>			
‡ ‡	Fill		,	,											
6 -	}				. 0										
Ė :		•													
- 7 -		•		: .	2.3				7						
E	1			•					RUN-2	es es	42				
8 -	1				1.2										Soil sample collected at depth
	}														of 7.5-8.0 ft @ 1145 on 10/26/2009
F 9 -	•				0							·			
<u>ا</u> ا	1	•													•
10 -	Red E	Frown f-m silty SAI	ND, some Gravel	s, some	0					٠,					
E 11 3				,											
= '' =				•	0										
12 -									_						
Ē =]		4.4		0				RUN-3	99	48				* .
- 13 -	,				0				집	٦					Soil sample collected at depth
	Fill		· · · · · · · · · · · · · · · · · · ·					*****				٠.,			of 12.5-13.0 ft @ 1200 on
14 -	1	Brown f-m silty SAM	VD. some Gravel	s some	,			******							11/16/2009 Contingency soil sample
‡ =	Fill		,	-, 551110	-										collected at depth of 13.0-13.5 ft @ 1150 on 10/26/2009
15 -	Red B	Brown f-m silty SAN	ND, some Gravel	s, some	0					·	\vdash				1.00 1100 011 10/20/2009
<u> </u>	Fill, m	oist	,												
16 -				•	0										Contingency soil sample
E 3								11111	į						collected at depth of 15.5-16.0 ft @ 1200 on 11/16/2009
- 17 -					0				4	~		-			
F 3	}			•				14.7.14	RUN-	89	8			İ	
- 18 -			-		0.				-						
£ _ 3			•						.					1	
- 19 -			•		0		•								
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Boring Log

FT-23

Sheet

of

4

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **EPI Drilling** Date Started Date Finished **Drilling Equipment Drilling Method Direct Push** 10/26/09 10/23/09 Geoprobe Depth to Rock Final Boring Depth Sampler 15 ft 5' acetate liner Groundwater Depth (ft) GZA Inspector Weight (lbs) Drop (in) Sampler Hammer Completion ____ Initial ∇ 24 Hours 🔽 Checked By Drilling Foreman Ben Alter AJ & Eddie Sandeep Singh Sample Data PID Reading (ppm) Depth (ft) Remarks Sample Description 10 20 30 40 0 Concrete Red Brown f- silty SAND, some Fill, some Gravels 0 J./75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/GINTY/2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:43:34 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 0 RUN-1 GB ဓ္က 3 0 0 0 No Recovery 0 0 8 Red Brown m-c silty SAND, some Gravels, little Soil sample collected at depth moist 0 of 7.5-8.0 ft @ 0930 0 Ò. 0 12 0 RUN-3 8 13 0 Soil sample collected at depth of 13.0-13.5 ft @ 0935 0 15 0 16 18

GZA

GeoEnvironmental, Inc.



FT-24 Boring Log

Sheet

of 1 1 Location Project 25 Sherwood Lane Unimatic Manufacturing Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. Elevation and Datum **Drilling Company Not Available EPI Drilling Drilling Method** Date Started Date Finished **Drilling Equipment** 10/22/09 10/22/09 **Direct Push** Geoprobe Depth to Rock Final Boring Depth Sampler 15 ft 5' acetate liner Sampler Hammer Groundwater Weight (lbs) Drop (in) Initial 🔽 Completion \(\bullet\) 24 Hours V Depth (ft) GZA Inspector Checked By **Drilling Foreman** Sandeep Singh Ben Alter AJ & Eddie PID Reading (ppm) Sample Data N-Value (Blows/foot) Depth Remarks Sample Description (ft) (ft) 10 20 30 40 0 Concrete Dark Brown m-c SAND, some Gravels, trace 0 Cobbles, tightly packed 0 RUN-1 89 8 0 Soil sample collected at depth of 3.0-3.5 ft @ 1415 0 Red Brown f-m SAND, trace Silt, trace Cobbles 0 0 0 RUN-2 8 8 Greyish Brown f-SAND, some Silt 0 9 0 Soil sample collected at depth of 9.0-9.5 ft @ 1420 Light Brown f-SAND, trace Silt, dry 0 11 0 12 RUN-3 Contingency soil sample 0 collected at depth of 11.5-12.0 8 ft @ 1425 13 0 15 0 16 17

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GeoEnvironmental, Inc.

Sheet

of

1 1 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **EPI Drilling** Date Started Date Finished **Drilling Equipment Drilling Method** 10/26/09 12/30/09 **Direct Push** Geoprobe Sampler Final Boring Depth Depth to Rock 4' acetate liner 18 ft Sampler Hammer Weight (lbs) Drop (in) Groundwater 24 Hours V Initial 🔽 Completion T Depth (ft)
GZA Inspector **Drilling Foreman** Checked By Sandeep Singh Ben Alter Warren & Ron Sample Data PID Readin (ppm) Depth Flev N-Value (Blows/foot) Remarks Sample Description (ft) (ft) 0 Concrete Red Brown m silty SAND, some Cobbles, some 1 0 Gravels RUN-1 8 36 2 0 3 Soil sample collected at depth 0 J.75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 6/15/2010 11:06:12 AM ... Report. Log -NJ-GZA GEOTECHNICAL ... Template TEMPLATE.GOT of 2.5-3.0 ft @ 0920 on 10/26/09 Soil sample collected at depth 0 Brown m-c SAND, moist, trace Cobbles, trace of 2.5-3.0 ft @ 1035 on Gravels 11/16/09 5 0 RUN-2 匮 36 6 0 0 Contingency soil sample collected at depth of 7.5-8.0 ft 0 @ 0925 on 10/26/09 Soil sample collected at depth 0 of 7.5-8.0 ft @ 1040 on RUN-3 11/16/09 89 3 10 0 11 0 12 0 Brown f-m clayey SAND, trace Cobbles, tightly packed 13 0 RUN4 8 \$ 0 15 0 Soil sample collected at depth 16 0 of 15.5-16.0 ft @ 1415 on RUN-5 12/30/09 BB 2 Soil sample collected at depth 17 0 of 15.5-16.0 ft @ 1045 on Hit Refusal 11/16/09 18 0 19

Sheet

of

1

Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available **EPI Drilling Drilling Equipment Drilling Method Date Started** Date Finished 11/16/09 Geoprobe **Direct Push** 11/16/09 Final Boring Depth Depth to Rock Sampler 5' acetate liner 16 ft Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 Completion <u> </u> 24 Hours 🕎 Depth (ft) GZA Inspector Drilling Foreman Checked By **Bob Fleming & Eddie** Ben Alter Sandeep Singh Sample Data PID Reading (ppm) Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description ğ (E) (ft) 0 Concrete Red Brown m silty SAND, some Cobbles, some 0 Gravels 2 Ô 36 3 Collected FT-25A at depth of 0 2.5-3.0 ft @ 1035 0 0 Brown m-c SAND, moist, trace Cobbles Ó 18.2. UNIMATIC ISRA CLOSURESOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ...6/154 74L...Template TEMPLATE.GDT 74L...Template TEMPLATE.GDT 74L...Template TEMPLATE.GDT 75L...Template TEMPLATE.GDT 0 RUN-2 œ 54 0 Collected FT-25A at depth of 7.5-8.0 ft @ 1040 0 0 0 Brown f-m clayey SAND, trace Cobbles 0 5 0 0 0 0 Collected FT-25A at depth of 15.5-16.0 ft @ 1045 18

10 11:06:16 AM ... Report: Log -

GZA GeoEnvironmental, Inc.

Sheet

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Project No	12.00/5418.20			Client Elevation ar	74 D~	4				ıfa	cturing	, Inc.
Drilling Co	EPI DINING							Avail	able		Date Fir	nichad
Drilling Eq	Geoprobe Drilling Method Direct	Push		Date Starter Final Boring			10/2	23/09		- 1	Depth to	10/23/09
Sampler	5' acetate liner ammer Weight (lbs)	Drop	(in)	Groundwate		ı، ا		20 ft		┸		
Sampler H		Diop	(111) _	Depth (ft) GZA Inspec				al <u>Ā</u>		-,	ompletion Checked	10
Drilling For	AJ & Eddie	·		, 	T	S	Sand	leep S	Singh		1	Ben Alter
Depth (ft)	Sample Description	1	PID Keading (ppm)	(tt) (tt) (AMATERIAL SYMBOL	Number	Type		Penetr. resist	N-V: (Blows	s/foc	ot)	Remarks
F°Ŧ	Concrete								T			
<u> </u>	Red Brown f silty SAND, trace Gravels		0					·				
			١,		:							
E 2 =	•	:	0		-							
E = 1					RUN-1	B	25	.				
- 3 -			0		: "					-		•
F .]		l			:					-		
F * 3		1	0		:							
5 -	Brown f-m silty SAND, trace Cobbles, tightly		0		—	ļ						
F =	packed, dry		١.								.	
F 6 -			0							4.000		
[]					:	İ						
F 7 🖠	,		0		RUN-2	eg GB	99					
8 -	•	.			. ≥	ြ	မ					Soil sample collected at
E 3			°									of 7.5-8.0 ft @ 1505
- 9 -		ŀ	0		1							
F]												
F 10 7	Brown m-c silty SAND, some Gravels		0		-	T	Н					
E _ 3												
F 11 =	·		0						1,100	to bell formatiques		
12			0		m					(mail reference living)		
E = =		ļ	<u> </u>		RUN-3	gg	9			-		
13 =			0		.]≅							·
E d												
[14]			0									
 		į			1		<u> </u>					
- 15 - - 15 -			°									
16		Ì						,				Soil sample collected at
F 1												Soil sample collected at of 15.5-16.0 ft @ 1520
F 17 =].	0		4	_	_			1		
12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19		ļ			RUN-4	89	8			į		
F 18			0		1		1					
F . 1												
19 -		1	.0	1 13/13	1			1		l		,



Boring Log

Sheet of 1 1 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available **EPI Drilling Drilling Equipment Drilling Method** Date Started Date Finished 10/23/09 10/23/09 Geoprobe **Direct Push** Final Boring Depth Depth to Rock Sampler 20 ft 5' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 Completion **T** 24 Hours V Depth (ft) GZA Inspector Drilling Foreman Checked By AJ & Eddie Sandeep Singh Ben Alter Sample Data PID Reading (ppm) Depth (ft) Elev (ft) Remarks Sample Description 10 20 30 40 0 Concrete 0 Red Brown f silty SAND, some Cobbles, some Garvels, trace clay 0 RUN-1 8 0 0 Brown f-m silty SAND, some Gravels, trace Fill, 0 0 RUN-2 3 0 Soil sample collected at depth of 7.5-8.0 ft @ 1310 0 Red Brown m silty SAND, trace Clay, tightly 0 packed, dry 0 0 8 0 0 15 Red Brown f-m clayey SAND, very ightly packed, 0 little moist 16 0 Soil sample collected at depth of 15.5-16.0 ft @ 1415 17 0 8 စ္တ 18 0 0

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GZA GeoEnvironmental, Inc.

Boring Log FT-28

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Project		Unimatic	Manufa	cturing						ition			<u> 25 S</u>	herw	ood L	.ane	Э		•	
Project No		12.00754	18.20						Clie		1.5		Unin	natic	Manu	ıfac	turing, In	c.	,	
Drilling Co		EPI Drillin	ıg					- 1		ation and		tum	Not A	Avail	able				· ·	
Drilling Ed	quipment	Geoprobe		Drilling Meth	od Direct	Push	1			Started			10/2	6/09			ate Finished	- 10	0/26/09)
Sampler	-	5' acetate	liner							l Boring		h		15 ft	•		epth to Roc	k		•
Sampler I	Hammer		_ V	Veight (lbs)	-	Drop	(in)	- 1	Gro	undwater th (ft)	•		Initia	ı <u>∇</u>			npletion 👤		24 Ho	ns 🛣
Drilling Fo	oreman	AJ & Edd	ie	· · · · · · · · · · · · · · · · · · ·					GZ/	Inspect	or	S	and	eep S	Singh	To	hecked By	Be	n Alter	
Depth (ft)				escription			PID Reading (ppm)	E (1	ev. ft)	MATERIAL SYMBOL	Number		San	resist Bl/6in	N-Va (Blows	alue /foot)			emark	
- 0 -	Concre	ete					-		- 1		Z	\vdash			10 20	30 40		- ,		.,
1 1 1		h silty SANI	D, some	Gravel, sor	me Cobbles	5,	0													
3					•		0				RUN-1	GB	36				Soil s	ample	collect	ed at de
4 -							0								Made in Laboratory was a project to the semental state of the seme		of 3.0	-3.5 ft	@ 130	0
5 -	Red B Grave	rown coarse ls, moist, lo	SAND osely pa	trace Silt, t	race		0			111		-								
6 -							.0													
7 -	•						0				RUN-2	GB	84	• •				_		
8 -			•		•		0										Soil s of 8.0	ample -8.5 ft	collect @ 131	ed at de
10	_ <u></u>						0													
- 11 -	trace	rown mediu Cobbles, tig	m silty s htly pac	SAND, some ked	e Gravels,		0								The same training to the same training to					
					٠		0				က္						Conti	ngenc	y samp	le colle 2.0 ft @
13							0		ŀ		RUN-3	GB	48			en refresignation en proprieta de la company	at de	pth of	11.5-12	2.0 ft @
- 14 -			٠.				0									And the second s				
15					· · · · · · · · · · · · · · · · · · ·		O	-	-	11.1:						Trice and company or many comments		٠.		
13 - 14 - 15 - 16 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19		-														Management of the latest states and the late				
18 -		-																		
19						-														
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Project				Πc	ocation							
	Unimatic Manufacturing			<u> </u>				25	Sherv	vood L	ane	9
Project N	12.00/0418.20			1.	lient			<u>Uni</u>	matic	Manu	fac	turing, Inc.
Drilling C				Ø	evation and	d Da	tum		Avail			
Drilling E	Guinment Drilling Method			D.	ate Started			-			D	Pate Finished
Sampler	Geoprobe Direct Pus	<u> </u>		Fi	nal Boring	Dept	h		18/09		+6	11/18/09 Pepth to Rock
1	5 acetate liner	p (in)		1				, , , , , , , , , , , , , , , , , , , 	20 ft		ᆚ	
	• I	יוי) קי	-	Ď	roundwater epth (ft)	<u>'</u>		Initi	ai <u>V</u>			npletion 24 Hours <u>V</u>
Drilling F	Bob Fleming & Eddie			G	ZA Inspect	or	5	San	deep :	Singh	C	hecked By Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	E	lev (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist aldw Bl/6in G	N-Va (Blows/	foot)	Remarks
F 0 -	Concrete	╫			S150 A17	2	-	Ι <u>-</u>	-	10 20 3	50 40	<u>'</u>
‡ :							ĺ					
1 -	Red Brown m-c SAND, some Gravels, tightly packed, little moist, turning Greyish Black at around 4.5' bgs.	0		•					·		to proper management of the state of	
2 -		0				-		l '				
‡ :						RUN-	GB	36	-			
- 3 -		0				~						Soil sample collected at depth of 3.0-3.5 ft @ 1045
- 4 -		0		,				١.				
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5 -		,			-1-1			<u> </u>				
-	Red Brown f -m silty SAND, compacted, little moist	"						l				
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E 4 3		0				1-2	_					
						RUN-2	GB	54			-	
- 8 -		0		٠.		4			-			Soil sample collected at depth
E 5									-			of 8.0-8.5 ft @ 1055
9 -	_	0										
ļ :												
- 10 -	Red Brown f-m silty SAND, trace Clay at around	۱ 。	.		1-1-1-1	-						
-	12-15' bgs.		:					1				,
- 11 -	·	0										
E 3		"										
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‡ ‡		0			14441	RUN-3	GB	54				
13 -						2	0	ြိ		.		
ţ ']		0							,			
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- 15 -		0						H				·
[]	•				1444	l						
16 -		0	.		[1]							Contingency soil sample
<u> </u>									ļ			collected at depth of 15.5-16.0
- 17 -		0				_						ft @ 1100
E 7		"			[1][1]	RUN4	89	09				
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E 7						ļ			-			

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GZA GeoEnvironmental, Inc.

heet 1 of

Drilling Co	EPI Dhiling	,	Elevation ar			ilable	cturing, Inc.
Drilling Eq	Geoprobe Drilling Method Direct Po	ush	Date Starte		11/16/0	9 [Date Finished 11/16/09
Sampler	5' acetate liner	·	Final Boring		10 1	rt <u> </u>	Depth to Rock
Sampler I		Orop (in)	Groundwate Depth (ft)		Initial <u>V</u>		mpletion 24 Hours <u>Y</u>
Drilling Fo	Bob Fleming & Eddie		GZA Inspec	or	Sandeep	Singn	Checked By Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	(t) (t) (value (value)	Number	Recov. (in) Penetr. resist	• • • • • • • • • • • • • • • • • • • •	
- 0 🛨	Concrete						
1 -	Red Brown f-m silty SAND, some Cobbles, Some Gravels, some Fill	0					
- 2 -		0		RUN-1	48		Soil sample collected at de of 2.0-2.5 ft @ 1440
4 -		0					
5 -	Brown f-m silty SAND, trace Cobbles, trace Gravels, dry	o					
- " -		0					
7		0		2			
= }				RUN-2	} 육		
8 -	· *	0		"			Contingency soil sample collected at depth of 7.5-8.
=							@ 1500
9 -		0					
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Project		Unimatic Manu	facturing					ocation	•	-	25	Sherv	vood Lar	ne	
Project N		12.0075418.20	1					lient			Uni	matic	Manufa	cturing, Inc.	
Drilling C		EPI Drilling					1	levation an		tum	Not	Avail	able		
l .	quipment	Geoprobe	Drilling Method	Direct Pus	h			ate Started			11/	16/09		Date Finished	1/16/09
Sampler		5' acetate liner		,				nal Boring		th		10 ft		Depth to Rock	-
,	Hammer	. +	Weight (lbs)	_ Dro	p (in)		G	roundwate epth (ft)	r	,	Initi	al <u>V</u>	Co	mpletion <u></u>	24 Hours <u>V</u>
Drilling F	oreman	Bob Fleming &	Eddie				G	ZA Inspect	or		San	deep	Singn I	Checked By Bo	en Alter
Depth		•		,	ging			. ¥5			Sa	mple D	ata		
(ft)		Sample	Description	·,	PID Reading (ppm)	.	Elev. (ft)	MATERIAL	Number	ğ.	§ 3	Penetr. resist BI/6in	N-Value (Blows/foo		Remarks
- 0 -	Concr	rete		· · ·	<u> </u>		_	25000	ž	Γ-	<u> </u>	5.0	10 20 30	10	· · · · · · · · · · · · · · · · · · ·
			·	·							1				
- 1 -	Red E	Brown f-m silty SAP els, some Fill	ID, some Cobble	es, Some	0						ľ				• .
E : 3		,													•
2 -			4.0		0				-	m	_				
E , 3									RUN-1	89	8			Soil sampl of 2.0-2.5 f	e collected at depth
					0									. 012.02.01	1420
F 4 =														·	
E 3		•			0		-								
<u>-</u> 5 -	Brown	f-m silty SAND, to	race Cobbles tr												•
ļ :	Grave	els, dry	uoo oobbics, uc												
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Boring Log

FT-32/32A

Sheet

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company EPI Drilling** Not Available Date Started Date Finished Drilling Equipment Drilling Method 11/16/09 12/30/09 Geoprobe **Direct Push** Final Boring Depth Depth to Rock Sampler 24 ft 4' acetate liner Groundwater Sampler Hammer Drop (in) Initial 🔽 24 Hours 🔽 Completion _____ Depth (ft) GZA Inspector Checked By Drilling Foreman Ben Alter Sandeep Singh Patrick, Warren, Bob & Eddie Sample Data Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description (ft) ğΞ 10 20 30 40 0 Concrete Yellow f SAND, some Gravels, some Cobbles, dry 0 RUN-1 IN75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/GINTN 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:44:35 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 8 24 0 0 0 RUN-2 GB 5 0 Red Brown m silty SAND, trace Fill, slight moist Soil sample collected at depth 0 of 7.5-8.0 ft @ 1059 on 11/16/09 0 42 0 Red Brown f-m silty SAND, trace Cobbles, trace Gravels, moist at 18'bgs 0 0 0 RUN4 89 8 0 15 0 Soil sample collected at depth 0 of 15.5-16.0 ft @ 1100 on 11/16/09 0 RUN-5 8 8 0 0

GeoEnvironmental, Inc.

GZA GeoEnvironmental, Inc. Sheet 2 of 2 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **EPI Drilling** Not Available PID Reading (ppm) Sample Data Elev. (ft) N-Value (Blows/foot) Depth Number Remarks Sample Description (ft) 20 0 21 0 RUN-6 8 \$ 22 0 23 0 24 Soil sample collected at depth of 23.5-24.0 ft @ 1315 on 12/30/09 0 25 26 27 28 29 30 31 32 33 34 35 36 37 38

ort: Log - NJ-GZA_GEOTECHNICAL ...Template 418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ :.. 6/14/2010 11:44:36 AM ...

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Project	Unimatic Manufacturing				cation			<u> 25 S</u>	Sherw	ood Lar	ne
Project No	12.0075416.20				ent			Unir	matic l	Manufa	cturing, Inc.
Drilling Co	EPI Drilling				evation and				Availa	able	Date Finished 44/46/00
Drilling Eq	uipment Geoprobe Drilling Method Direct Pus	sh	•		te Started			11/	16/09		Depth to Rock
Sampler Sampler I	5' acetate liner lammer Weight (lbs) Dro	op (in)	· · ·	1	nal Boring		.n		20 ft	لـــــــــــــــــــــــــــــــــــــ	-
Drilling Fo		op (111)	-	De GZ	oundwater epth (ft) ZA Inspect	or			al <u>V</u>	- 1	ompletion 24 Hours V Checked By
21111111911	Bob Fleming & Eddie	ع ا			T	_			deep S mple Da	singn	Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bt/6in	N-Value (Blows/for 10 20 30	· •
E 3	Concrete										
E 1 =	Yellow f SAND, some Gravels, some Cobbles, dry	7 。									
$\begin{bmatrix} 1 \end{bmatrix}$											
2 -	•	0				7	m	_o			
[<u>]</u>						RUN-1	GB	36			
3		0									
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 10 11 20 11 12 13 14 15 16 17 18 19 20 10 11 12 13 14 15 16 17 18 19 20 10 10 10 10 10 10 10 10 10 10 10 10 10		0							$\vdash \vdash$		
1											
6 -		0	1	'							
E 7 = 3						2					
<u> </u>		"				RUN-2	GB	84			
F 8 -	Red Brown f-m silty SAND, trace Fill, slight moist	- 0			hii	۳		:			Soil sample collected at
[]				`		1					of 7.5-8.0 ft @ 1020
- 9 -		0								-	
10 =	Dad Drawn for alls CAND have Calibles force	-				<u> </u>	1	ļ	 		
F = =	Red Brown f-m silty SAND, trace Cobbles, trace Gravels, moist					1					
F 11 -	•	0				1					
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- 12 -		0				RUN-3	B	54			
13] _문					
F =						1	1				
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F 15 -		0				T	Τ			All all all all all all all all all all	
16 -											Contingency soil sample
F" =		0]	}				Contingency soil sample collected at depth of 15.
17		0				4					ft @ 1025
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18	· ;	0				1 2					
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Project	Unimatic Manufacturing			Location			25 3	Sherv	vood La	ane	
Project I	^{√0.} 12.0075418.20			Client							turing, Inc.
i .	Company EPI Drilling			Elevation an		tum	Not	Avai	lable		b -
	Geoprobe Drilling Method Direct Pus	h		Date Started			11/	16/09)		ate Finished 11/16/09
Sampler	5' acetate liner			Final Boring		h		16 fl		D	epth to Rock
	· - 1	p (iń)	-	Groundwate Depth (ft) GZA Inspect	r		Initi	al <u>V</u>	- 0		pletion 24 Hours 7
Drilling F	oreman Bob Fleming & Eddie			GZA Inspect	or	S	and	leep	Singh	c	hecked By Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	E (1	MATERIAL SYMBOL	Number	ed.		Penetr. resist aldw Bl/6in g			Remarks
- 0 -	Concrete	4	\dashv		ž		œ	2 2 0	10 20 30	40	
- 1 - - 1 -	Red Brown f SAND, trace Silt, some Cobbles, some Gravels, trace Fill	0						•		and the first of the ten	
2 -		0			N-1	89	36				
3 -		0			RUN-1	ဗ	8				
4 -		0									
5 -	Dark Red Brown f-m silty SAND, some Cobbles, trace Fill, little moist	0									
6 -		0									
7 -		0			RUN-2	GB	84		Bibliotical designation for a community of the community		
8 -		0			۳				10 PRI 1911 AND AND AND AND AND AND AND AND AND AND		Soil sample collected at depth of 7.5-8.0 ft @ 1000
9 -		0								-	
10 -	Dark Red Brown m silty SAND, some Fill at 11'bgs, trace Cobbles, trace Gravels, little moist	0									·
- 11 -		0				•					
- 12 -		0			RUN-3	8	54		THE PARTY AND LABOR CO.		
- 13 - 14		0									
15 -		0									
16 -		0			RUN-4	88	12				·
17		0									Soil sample collected at depth of 15.5-16.0 ft @ 1010
18									44 mg 47 mg 44 mg		
- 19 -											

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **EPI Drilling Drilling Equipment** Date Started Date Finished **Drilling Method** 11/16/09 11/16/09 **Direct Push** Geoprobe Depth to Rock Final Boring Depth Sampler 16 ft 5' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial ∇ 24 Hours 🕎 Checked By **Drilling Foreman** Sandeep Singh Ben Alter **Bob Fleming & Eddie** Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 0 Concrete Red Brown f SAND, trace Silt, some Cobbles, 0 some Gravels, trace Fill 13/75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:44:53 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT ...Template TEMPLATE.GD 0 36 0 0 Dark Red Brown f-m silty SAND, some Cobbles, 0 trace Gravels, little moist 0 0 RUN-2 8 Soil sample collected at depth 0 of 7.5-8.0 ft @ 1320 0 Dark Red Brown m-c silty SAND, trace Cobbles, trace Gravels, little moist, SAND became coarser 0 around 15' bgs 0 RUN-3 0 3 13 0 0 15 0 贸 4 16 Contingency soil sample 0 collected at depth of 15.5-16.0 ft @ 1330 17 18

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oject N	O	Unimatic Manufa 12.0075418.20				·		ient				Sherw matic			uring, Inc.	
illing C	ompany	EPI Drilling	· · · · · · · · · · · · · · · · · · ·	·	•		E	evation an	d Dat			Avail				
illing Ed	quipment	Geoprobe	Drilling Method	Direct I	Push			ate Started				29/09		1	te Finished	2/18/10
ampler		5' acetate liner					- 1	nal Boring		h		5 ft		De	pth to Rock	-
	Hammer	-	Weight (lbs)	_	Drop (i	n) -	G	roundwate epth (ft) ZA Inspect	r		Initia	al 🔽			oletion <u> </u>	24 Hours <u>V</u>
illing Fo	oreman	Patrick, Ray & W	Varren	·			G	ZA Inspect	or	S	and	leep (Singh	Ch	ecked By	Ben Alter
epth (ft)		Sample D	escription		D Reading	(mdd)	Elev (ft)	MATERIAL	Number		Sar	Penetr. Bl/6in Bl/6in	·N-Va (Blows	lue /foot)		Remarks
0 -	Concr	ete			- =		-		ž	\vdash	~	<u> </u>	10 20	30 40		
1 -	Red B	rown f-m SAND, so s, soils compacted	me cobbles, trac after 3.5-4.0 ft bg	e I											Soil san	ple collected at a
=	•														depth of 12/29/09	0.5-1.0' bg @ 101
2 =			•		, ()			7	_						
, =									RUN-1	89	8				Hit Refu 02/18/10	sal at 2.5' bg on
" 🗄					. [) .									Soil san	ple collected at a
4 =															12/29/09	2.5-3.0 @ 1015 oı)
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Boring Log

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Sheet

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **EPI Drilling** Date Started Date Finished Drilling Method **Drilling Equipment** 12/29/09 12/29/09 **Direct Push** Geoprobe Depth to Rock Final Boring Depth Sampler 5ft 5' acetate liner Weight (lbs) Drop (in) Groundwater Sampler Hammer Completion ____ Initial 🔽 24 Hours 🔽 Depth (ft)
GZA Inspector Checked By **Drilling Foreman** Ben Alter Sandeep Singh Warren & Patrick Sample Data PID Readin (ppm) Elev Depth Remarks Sample Description Type (Blows/foot) (ft) (ft) 10 20 30 40 0 Concrete Red Brown f-m SAND, some cobbles, trace gravels, soils compacted at 4.0 ft bg Soil sample collected at a 0. depth of 0.5-1.0 @ 1045 JA75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINTN 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:45:12 AM ... Report Log • NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GOT 0 8 8 3 Soil sample collected at a 0 depth of 2.5-3.0 @ 1055 0 0 12 13 16 18 19

GeoEnvironmental, Inc.



Boring Log

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Project				Location				. , .			
Project N	Unimatic Manufacturing	· · · · · ·		Client	•				ood L		
Drilling C	12.0075416.20			Elevation ar	d Dat		Uni	matic	Manu	factu	rring, Inc.
	EPI Drilling					.um	Not	Avail	able	T .	
	quipment Geoprobe Dirlling Method Direct Pu	sh	i	Date Started			12/	29/09	·		e Finished 12/29/09
Sampler	5 acetate iiner	· .		Final Boring	-	n 	,	5 ft	·	Det	oth to Rock
Sampler	-1	op (in)	-	Groundwate Depth (ft)			Initi	al <u>V</u>			letion <u>Y</u> 24 Hours <u>Y</u>
Drilling F	oreman Warren & Patrick			GZA Inspec	tor	S		deep (Che	ecked By Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)		(t)	Number	Туре		Penetr. resist Bl/6in	ata N-Val (Blows/	lue foot)	Remarks
- 0 -	Consistent	불		3.0	Ž	۴		P 5 9	10 20 3	30 40	
	Concrete		-					,			•
1 -	Red Brown f-m SAND, some cobbles, trace gravels, loosely packed soils	-			1					'	Soil sample collected at a
	gravers, loosely packed soils										depth of 0.5-1.0 @ 1240
- 2 -		0			-	_					
					RUN-1	8	90				
- 3 -		0			"						Soil sample collected at a
											depth of 2.5-3.0 @ 1245
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FT-39 **Boring Log**

GeoEnvironmental, Inc.

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of

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **EPI Drilling** Date Started Date Finished Drilling Equipment **Drilling Method Direct Push** 12/29/09 12/29/09 Geoprobe Final Boring Depth Depth to Rock Sampler 10 ft 5' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial ∇ Completion ____ 24 Hours V Depth (ft)
GZA Inspector Drilling Foreman Checked By Ben Alter Patrick & Warren Sandeep Singh Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev Depth Remarks Sample Description (ft) Type (ft) (in) 10 20 30 40 0 Concrete Red Brown fine to medium SAND, some cobbles, Soil sample collected at a 0 trace gravels, loosely packed soils depth of 0.5-1.0 @ 1030 J.175400 TO 75599175418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:45:26 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Tempiate TEMPLATE.GDT 2 0 RUN-1 8 4 3 Soil sample collected at a 0 depth of 2.5-3.0 @ 1035 0 Red Brown fine SAND, trace Clay, slight moist 0 6 0 0 RUN-2 GB 8 Soil sample collected at a depth of 7.5-8.0 @ 1040 0 0 0 11 12 13 15 16

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Sheet

of

1 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum Drilling Company **EPI Drilling** Not Available Date Finished **Drilling Equipment** Drilling Method Date Started 12/29/09 12/29/09 Geoprobe **Direct Push** Depth to Rock Final Boring Depth Sampler 10 ft 5' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial ∇ Completion _____ 24 Hours V Checked By **Drilling Foreman** Sandeep Singh Ben Alter Patrick & Warren Sample Data Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 0 Concrete Red Brown fine to medium SAND, some cobbles, Soil sample collected at a depth of 0.5-1.0 @ 1110 0 trace gravels, loosely packed soils 0 RUN-1 8 42 3 Soil sample collected at a depth of 2.5-3.0 @ 1115 0 Red Brown medium SAND, some gravels 0 5 0 0 Red Brown fine SAND, some gravels 0 RUN-2 8 စ Soil sample collected at a 0 depth of 7.5-8.0 @ 1125 0 10 0 11 12 13 14 15

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GZA GeoEnvironmental, Inc.

Sheet

of

Location Project **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum **EPI Drilling** Not Available **Drilling Equipment** Date Started Date Finished Drilling Method 12/29/09 **Direct Push** Geoprobe 12/29/09 Final Boring Depth Depth to Rock Sampler 16 ft 4' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial ∇ 24 Hours V Completion **T** Depth (ft) GZA Inspector **Drilling Foreman** Checked By Warren & Patrick Sandeep Singh Ben Alter Sample Data PID Readin (ppm) Elev. (ft) Depth N-Value Remarks Sample Description Penetr resist Bl/6in (Blows/foot) (ft) 0 Concrete Gravel, Cobbles, Concrete 1 Soil sample collected at 0 Void 0.5-1.0 ft bg @ 1340 8 8 2 0 Red Brown fine SAND, some Clay, well compacted soils, septic odor was observed 3 Soil sample collected at 0 2.5-3.0 ft bg @ 1345 0 5 0 RUN-2 සු 8 0 0 8 Soil sample collected at 0 7.5-8.0 ft bg @ 1350 9 0 8 8 10 0 11 0 12 Soil sample collected at Red Brown fine Clayey SAND, trace Silt, well 0 15.5-16.0 ft bg @ 1400 compacted soils 13 0 問 8 14 0 15 0 16 0 17 18 19

11/75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:45:38 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

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GeoEnvironmental, Inc.

Sheet

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of Project Location Unimatic Manufacturing 25 Sherwood Lane Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **EPI Drilling** Not Available **Drilling Equipment** Date Started Drilling Method Date Finished 12/29/09 12/29/09 Geoprobe **Direct Push** Sampler Final Boring Depth Depth to Rock 4' acetate liner 24 ft Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 22 Completion V 24 Hours V Drilling Foreman Checked By Patrick & Warren Sandeep Singh Ben Alter Sample Data PID Readir (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 0 Concrete Yellow f SAND, some Gravels, some Cobbles, dry Soil sample collected at depth of 0.5-1.0 ft @ 1135 0 RUN-1 贸 24 0 3 Soil sample collected at depth 0 of 2.5-3.0 ft @ 1140 Red Brown f-m silty SAND, trace Fill, slight moist 0 0 89 36 0 0 0 Soil sample collected at depth of 7.5-8.0 ft @ 1145 0 RUN-3 8 42 0 11 0 12 Red Brown m-c silty SAND, slight moist 0 13 0 RUN4 8 3 14 0 15 0 16 Red Dark Brown c SAND, some Silt 0 Soil sample collected at depth of 15.5-16.0 ft @ 1155 17 0 RUN-5 89 18 8 0 19 0

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GZA GeoEnvironmental, Inc.

Boring Log

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2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **EPI Drilling** PID Reading (ppm) Sample Data N-Value (Blows/foot) Elev (ft) Remarks Depth Sample Description 20 Red Dark Brown c SAND, some Silt, wet at 22'bgs 21 0 RUN-6 89 84 22 0 23 0 J.735400 TO 75599175418.2, UNIMATIC ISRA CLOSUREIGINT/12:0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:45:47 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT Contingency soil sample collected at depth of 23.5-24.0 ft @ 1215 0 25 26 27 28 29 30 31 32 33 35 36 37 38 39

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Project	Unimatic Manufacturing		ocation 25 Sherwood La	ne
Project N	12.0075416.20		lient Unimatic Manufa	acturing, Inc.
Drilling C	EPI Driving		Not Available	I Date Circles
Drilling E	Geoprobe Drilling Method Direct Pus	<u>h · · · </u>	ate Started 12/29/09	Date Finished 12/29/09
Sampler	4' acetate liner		inal Boring Depth 16 ft	Depth to Rock
Sampler	-	p (in) 	epui(ii) =	completion 24 Hours
Drilling Fo	Warren & Patrick	.^	ZA Inspector Sandeep Singh	Checked By Ben Alter
Depth	Sample Description	PID Reading (ppm)	Sample Data Sample Data NARDOL Limber Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Symbol Name Claim Na	e Remarks
(ft) - 0 -	Concrete	90 90 90	WANTER Penetr (in) Who be with the work of	~',
: =				
- 1 -	Brown fine SAND, some Gravel, trace Cobbles	0 1		
: :				
2 -		0	GB GB	
: 1				
- 3 -				
= =				
- 4 -	Red Brown f-m SAND, trace Silt, some Gravel, some Cobbles, tightly packed, dry	0		
5 -	and the second s			
:]				
6 -			RUN-2 GB 42	Soil sample collected at depth
=				of 5.5-6.0 ft @ 1435
- 7 -				
- 8 -				
:]				
9 -				1
: :				
- 10 -	Yellow Brown f-m SAND, trace Silt, loosely	0	RUN.3 GB 68	
: :	packed			
- 11 -		0		
:]				
- 12 -		0		Soil sample collected at depth
: []				of 11.5-12.0 ft @ 1435
- 13 -		0		
: ,, =				
- 14 - :		0	88 GB 48	
: ,,		.		
- 15 -		0		
:				
- 16 -		0		Soil sample collected at depth
: _				of 15.5-16.0 ft @ 1445
- 17 -				
:]				
- 18 -				
- 19 -		.		
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19				

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GZA GeoEnvironmental, Inc.

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Project N Drilling C	12.0075418.20					ent vation and	Dat		,	natic Avail		acti	uring, Inc.	· · · · · · · · · · · · · · · · · · ·
	quipment Geoprobe	Drilling Method Direct F	Push		Da	te Started	-			29/09	anie	Da	te Finished	2/30/09
Sampler		Directi	4011		Fin	al Boring [Dept			16 ft		De	pth to Rock	-
Sampler I		eight (lbs)	Drop (in)	-	Gr	oundwater pth (ft)			Initia			Comp	oletion <u></u>	24 Hours 🕎
Drilling Fo	oreman Warren & Ron				GŽ	'A Inspecto	or	ـــــ ج			Singh	Ch	ecked By B	en Alter
	vvalien a ron	-	Ē		,	ا د			Sar	nple Da	ata			
Depth (ft)	Sample De	scription	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре	Recov. (in)	Penetr. resist BI/6in	N-Va (Blows/ 10 20 3	foot)	. F	Remarks
Ĭ	Concrete												•	
- 1 -	Brown fine SAND, some G	ravel	0											
=							-	<u>_</u>	_					
- 2 -			0				RUN-1	8	24					
3 -														
"]			0											
- 4 -	Red Brown f-m SAND, trac	se Silt, some Gravel			,	 .		Н						
1	some Cobbles, tightly pack	ked, dry	ľ											
- 5 -			0		. ,									
- =							2-7		_					
- 6 -		•	0				RUN-2	GB	48				Soil samp of 5.5 ft @	e collected at 0 0910
]					١.									
' =			0											
- 8 -			0		3			-	\vdash				Soil samp	le collected FT
=			İ										depth of 7	.5 ft @ 0910
- 9 -			0	1	·									•
4,							RUN-3	89	84					
- 10 -	Yellow Brown f-m SAND, i	race Silt, loosely	•				5	9	4					
- 11 -	, passes													
12 -	Yellow Brown fine SAND,	some Clay, tightly					\vdash	\vdash		 				
	packed at 14' bg, More co	mpacted at 15'bg												
- 13 -			0											
- - 14 -							RUN-4	GB	84				1.	
· ' -			"				존							
- 15 -			. 0											
16 -	,		─ •		1	1	-	-	 				Soil samp	le collected FT 5.5 ft @ 0910
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Project			TLocation 05 Ot 1 1 2
Project N	Unimatic Manufacturing		25 Snerwood Lane
1	12.0075418.20	· ·	Unimatic Manufacturing, Inc.
1	EPI Drilling		Not Available
Sampler	Geoprobe Direct Push	<u> </u>	12/29/09 12/30/09
1	4' acetate liner Hammer Weight (lbs) Drop	(in)	1011 -
Drilling F	- 1	· ("') -	Depth (ft) India v - Completion v - 24 Hours v -
Diaming F	vvarren & Ron	<u> </u>	Sandeep Singh Ben Alter Sample Data
Depth (ft)	Sample Description	PID Reading (ppm)	Sample Data Sample Value (ft)
F 0 =	Concrete		
1 1	Red Brown m silty SAND, some Cobbles, some Gravels	0	7 m c
2 - 3 -		0	Sell comple cells at death
4 -		0	Soil sample collected at depth of 2.5-3.0 ft @ 1040
5 -	Brown m-c SAND, moist, trace Cobbles	0	
6 -		0	RUN-2 GB GB
F 7 -		0	
9		0 0	Soil sample collected at depth of 7.5-8.0 ft
10 -		0.	RUN-3 GB 68
11 -		0	
12 -	Brown f-m clayey SAND, trace Cobbles	0	
14 -	*	0	RUN-4 98 88 48
15 -		0	
- 16 - - 17 -		0	Soil sample collected at depth of 15.5-16.0 ft
- 18		0 0	89 89 89 89 89 89 89 89 89 89 89 89 89 8
19 -		0	
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Boring Log FT-45/46

Sheet 2 of 2 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum **EPI Drilling** Not Available Sample Data PID Reading (ppm) Elev. (ft) Depth (ft) N-Value (Blows/foot) Remarks Sample Description 20 ō 21 0 8 22 24 0 23 0 Soil sample collected at depth of 23.5-24.0 ft 24 0 25 LIYS400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/SOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 6/15/2010 11:14:00 AM ... Report: Log - NJ-GZA GEOTECHNICAL ... Template TEMPLATE.GOT 26 27 28 29 30 31 32 33 34 35 36 37 38 39



Boring Log

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Project		I Inimatic Marris	acturin =				T	ocation			25.9	Shore	nod I	ane		•		
Project N	lo.	Unimatic Manuf	acturing			• •	_ 1	lient				Sherw			ıring, Inc.			
Drilling C		12.0075418.20	•	• • •				levation and	l Dat			Avail		iacil	ming, inc.			
	quipment	EPI Drilling	Drilling Method	Direct D.			10	ate Started		<u> </u>		18/10	avie	Da	te Finished	2/18	/10	
Sampler		Geoprobe		Direct Pu	เรก	•		inal Boring	Dept	h	21			De	pth to Rock	2/ 10	, 10	
Sampler		4' acetate liner	Weight (lbs)	10	Prop (in)		- 1			-1	Initi	2 ft al <u>又</u>		Comr	oletion T	24	Hours 5	,
Drilling F				!	a fe fa f	-	- B	Groundwater Depth (ft) GZA Inspect	or					106	ecked By			-
-		Pat & Ray			I go	<u> </u>	ᆣ	`			San	deep S	singn ata		<u> </u>	Ben A	ter	
Depth (ft)		Sample D	escription		PID Reading (ppm)		Elev (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bi/6in	N-Va (Blows			Rema	ırks	
F 0 -	Concr	rete			1	 			-			,		TT		:		
	Brown	n f-m silty SAND, G	ravel. Cobbles.	Concrete	-				RUN-1	GB CB	12				·			
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GZA GeoEnvironmental, Inc.

Boring Log FT-48

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Drilling Co	Eri Dilling				vation an		itum	Not	Avail	able		
Drilling Ed	ruipment Geoprobe Drilling Method Direct Po	ısh	,	1	te Started			2/	18/10			Date Finished 2/18/10
Sämpler	4' acetate liner	· · · · · · · · · · · · · · · · · · ·		1	al Boring	-	th 	,	4 ft		ᆚ	Depth to Rock
Sampler I	•	rop (in)	-	l De	oundwate pth (ft) 'A Inspect			Initi	al <u>V</u>			mpletion 24 Hou Checked By
Drilling Fo	Pat & Ray	16		GZ	A Inspect	.or			deep S			Ben Alter
Depth	Sample Description	PID Reading (ppm)		Elev.	MATERIAL SYMBOL	Ser		_		N-V		Remarks
(ft) - 0 -	Cample Description	5.0		(ft)	MAT SYI	Number	Туре	Recr (in	Penetr. resist Bl/6in	(Blows	,	'
- " -	Concrete											
- 1 -	Red Brown f SAND, some cobbles, trace gravels,	١,			A	-			·			Soil sample collecte
	concrete					RUN-1	GB	36	.			of 0.5-1.0 ft @ 0950
- 2 -	Red Brown f SAND, trace Silt, trace gravels, dry,	0				Ľ						
3 -	compacted											
· *]	Hit Refusal] °.										Soil sample collecte of 2.5-3.0 ft @ 0950 Hit Refusal
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FT-49 **Boring Log**

Sheet

of 1 1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **EPI Drilling** Not Available **Drilling Equipment** Drilling Method Date Started Date Finished Geoprobe **Direct Push** 2/18/10 2/18/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 4 ft Sampler Hammer Weight (lbs) Groundwater Drop (in) Initial 🔽 24 Hours 🔽 Completion **T** Depth (ft) GZA Inspector Drilling Foreman Checked By Pat & Ray Sandeep Singh Ben Alter PID Reading (ppm) Sample Data Elev (ft) Depth N-Value (Blows/foot) Sample Description Remarks (in) (ft) 0 Concrete Red Brown f SAND, some cobbles, trace gravels, RUN-1 Soil sample collected at depth of 0.5-1.0 ft @ 1015 0 8 8 concrete Hit Refusal 0 Hit Refusal 0 12 13 15 16 17 18

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Boring Log FT-50

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Project		Unimatic Man	ufacturing	,,		- 1	Location			25 5	Sherv	vood L	ane		,		
Project N		12.0075418.20) .			1	Client			Uni	matic	Manu	ıfact	uring, Inc.			
Drilling C	Company	EPI Drilling			-		Elevation an	d Da				lable		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Drilling E	quipment	Geoprobe	Drilling Meth	od Direct F	Push		Date Started				18/10		Da	ate Finished	2/	18/10	
Sampler		4' acetate line	• .		•		Final Boring	Dep	th		16 f		De	epth to Rock		•	
Sampler	Hammer		Weight (lbs)	_	Drop (in)		Groundwate	r		Initi	al 💟	·	Com	pletion	1	24 Hours	<u>v</u>
Drilling F	oreman	Dot 9 Doy			<u> </u>		Depth (ft) GZA Inspect	or				Cinab	TO	necked By			=
		Pat & Ray	. =		le l					Sano	mple D	Singh ata	٠	T	Dell	Alter	
Depth (ft)		Sample	Description	٠	PID Reading (ppm)	E) (1	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bi/6in		/foot)		Ren	narks	
- 0 -	Concr	ete							-		-				·	·	
1 1	Yellov loosel	v f SAND, some (y packed	Gravel, trace Co	obbles,	$\neg \mid \circ \mid$												
2 -					. 0			RUN-1	GB	36						-	
3					0												
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Dark E Cobbl	Brown m SAND, s es, loosely packe	ome Gravel, s d, dry														
5			٠		0			1-2	_								
6			•	· · · · · · · · ·	0			RUN-2	GB	42					-		
7 -				,	0												
8					0						,						
9					0			F-3	89	42							
10 -	packe	v Brown f SAND, d, little moist	trace Gravels,	tightly	0			RUN-3	Ø	4							
- 11 -					0												
12 -					. 0												
14 -					0			RUN-4	GB	48							
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Project	Unimatic Manufacturing		Loc	ation		. •	25 9	Sherw	ood L	ane	
Project N	12.0075418.20	· · · · · · · · · · · · · · · · · · ·	Clie	ent							uring, Inc.
Drilling C	ompany Hawk Drilling Company		Ele	vation and	Dat			Avail			<u>-</u>
Drilling E	quipment Geoprobe Drilling Method Direct Push		Dat	te Started		'		18/09		Da	ite Finished 2/18/09
Sampler	4' acetate liner		Fin	al Boring	Depti	h		4 ft		De	epth to Rock
Sampler	Hammer Weight (lbs) Drop	(in) _	Gro	oundwater	-		Initia	al ∇		Com	pletion Y _ 24 Hours Y _
Drilling F	oreman Pat & Ray		GZ	oth (ft) A Inspect	or				Singh	Tob	necked By Ben Alter
	racarray	<u> </u>	۱.	4-1			Sai	mple Da	ata	٠.	Jon Allei
Depth (ft)	Sample Description	PID Reading (ppm)	lev. (ft)	MATERIAL SYMBOL	Number	Type	3.8	Penetr. resist BI/6in	N-Va (Blows	lue /foot)	Remarks
- 0 -	Concrete			5 ″	Ž	F	8	% 5 <u>₽</u>	10 20 3	30 40	
									-		
1 -	Yellow f SAND, some Gravel, trace Cobbles, loosely packed	0			j						Soil sample collected at depth
	loosely pasked				Σ	_					of 2.5-3.0 ft @ 1135
- 2 -		0			RUN-1	8	30				
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- 3 -	4	0									
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JC-2 Boring Log

Oneign													Sheet	1	of	1
Project N	Unimatic Manufa	acturing				ocation			25 She	woo	<u>l La</u>	ne				_
Drilling C	12.0075418.20				- f	Client Elevation an	M D	- 4				actu	ring, Inc.	 -		
	nawk Drilling Co	Drilling Mothed			- 1	Date Started		aluM	Not Ava		:	In-	to Cinishod		•	
Sampler	Geoprobe	Drilling Method Direct F	² ush		- 1	Jate Started		oth-	3/9/1				te Finished	3/9	/10	_
	4 acetate liner	18/ai-ht/lb-a	I D	(i=)	1	-inal Boring Groundwate		pun	· 16			ــــــــــــــــــــــــــــــــــــــ	pth to Rock			
Drilling F		Weight (lbs)	Drop	(in)	10	Depth (ft) SZA Inspec			Initial <u>V</u>	-16	(pletion <u></u>	_ 24	Hours <u>Y</u>	
Drilling F	Bret Pierson	· · · · · · · · · · · · · · · · · · ·	Τ.		\perp	32A Inspec	ior	5	Sandeer		<u>jh</u>		ecked By	Ben Al	ter	_
Depth (ft)	Sample D	Description		(mdd)	Ele ^e	MATERIAL SYMBOL	Number	₹ype	Recov. (in) Penetr. resist		I-Valu ows/f	oot)		Rema	ırks .	
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- 2 -							RUN-1	GP	24							
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JC-4 **Boring Log**

> Sheet 1

of

2 Project ocation **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Hawk Drilling Company

| Drilling Method | Direct Push Elevation and Datum Not Available Drilling Company **Drilling Equipment** Date Started Date Finished 3/9/10 3/9/10 Sampler Final Boring Depth Depth to Rock 30 ft 5' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion T 24 Hours 🔽 20 Drilling Foreman Checked By Catherine Fang Steve & Andrew Ben Alter Sample Data PID Reading (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Sample Description Remarks 0 Loose dark brown fine to medium SAND, some 0 grass, moist 0 2 RUN-1 24 [B[3 0 0 5 0 Hard brown CLAY, dry 0 RUN-2 0 <u>a</u> 8 0 0 10 0 0 12 0 RUN-3 GБ 8 13 0 14 0 15 Hard brown CLAY, wet 0 16 0 JC-4-16 was collected at 16' bg at 1030 17 0 RUN4 GР 8 18 0 19 0

J./75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 1/21/2011 10:12:28 AM ... Report: Log - NJ-42A, GEOTECHNICAL ... Tompiste TEMPLATE.GDT



Boring Log ______ JC-4

Sheet

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Project	Unimatic Manufacturing			- 1	cation			25 9	Sherw	/ood	La	ne	
Project No.	12.0075418.20			- 1	ent			Unii	natic	Man	ufa	ctu	ring, Inc.
Orilling Compar	Hawk Drilling Company			Ele	evation an	d Da	tum	Not	Avail	able			
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Type		Penetr resist Bl/6in aldu	N- (Blo	Value ws/fo	ot)	Remarks
21 -		0											JC-4-21 was collected at 21't at 1032
22 -		0				RUN-5	d9	12	. :				
24 - 25 - Loo	se brown medium to coarse SAND, saturated	0											
26 -		0	•				// // //						4 L
28		0				RUN-6	d9	12					JC-4-28C was collected at 28 at 1035
29 = 3		0					11 11 1						
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26 Loc 26 27 30 31 32 33 34 35 36 37 38 39 40 41 41 42 42 42 42 42 42					,								

Boring Log KB-1

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of 1

Project	Unimatic Manufacturing			L	ocation			25 8	Sherw	ood La	ne			
Project N				c	lient							ring, Inc.		-
Drilling C				E	levation and	d Da			Avail					
Drilling E	quipment HSA Drilling Method HSA	÷	-	Þ	ate Started		:		25/10		Date	Finished	3/25/10	
Sampler	1.5" split spoon			Fi	inal Boring	Dep	th		14 ft		Dept	th to Rock		
Sampler	Hammer Weight (lbs) Drop	o (in)		Ģ	roundwater epth (ft)	-		Initi	al 🔽		Comple	etion 🔻 _	24 Hours 🔽	
Drilling F	oreman Todd & David & Derek			Ğ	ZA Inspect	or	(Ь		Fang	Che	cked By Be	n Alter	
	Todd & Bavid & Borok	6u]		1	4		`		mple Da	ata				
Depth (ft)	Sample Description	PID Reading (ppm)		Elev (ft)		Number	Турв	Recov.	Penetr. resist Bl/6in	N-Valu (Blows/fo 10 20 30	oot)			
E 3	Asphalt	0					_1					0.5		
1 -	Medium loose red brown fine SAND, some Silt, dry	0				RUN-1	AUGER	12	0 12 15	229	-	Sports (Appril	Riser ell Diagram	
3 -	Medium loose yellow brown fine to medium SAND, some grey Silt, moist	0				RUN-2	AUGER	12	10 10 14	26+				
4 -	Loose brown fine SAND, wet	0							15		-	4.0		
5 1 6		0				RUN-3	AUGER	12	8 12 12	224		60		
7 -	Medium dense brown fine SAND, some brown Clay, saturated	0				RUN-4	AUGER	12	8 12 8 16	28			Screen	
8 -	Medium dense brown fine SAND, some brown Clay, moist	0							20		-	8.0		
9 -	Medium hard brown CLAY, moist	0		-		RUN-5	AUGE	24	10 10 12 12	22		10.0		
11	Medium dense brown fine SAND, moist	0				RUN-6	AUGER	24	6 6 5	11			·	
12	Medium dense brown fine SAND, wet	.0							5,			12.0		
13		0		-		RUN-7	AUGE	24	2 6 10	10•		14.0		
14 -		0										14.0		
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17 -														,
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418.2, UNIMATIC ISRA CLOSURESOIL BORING&WELL LOGS/12.0075418.20 WELL LOGS IN PROGRESS.GPJ ... 6/15/2010 1:48:36 PM ... Report. Log-

Boring Log KB-2

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GZA GeoEnvironmental, Inc.

Sheet

of

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Date Finished Date Started **Drilling Equipment** Drilling Method HSA 3/25/10 3/25/10 **HSA** Depth to Rock Final Boring Depth Sampler 18 ft 1.5" split spoon Groundwater Weight (lbs) Drop (in) Sampler Hammer Initial 🔽 Completion ____ 24 Hours V Depth (ft)
GZA Inspector Checked By Drilling Foreman Ben Alter Todd & David & Derek Catherine Fang Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Sample Description (ft) 0 Loose yellow brown medium to coarse SAND, some red brown Silt, some Gravel, dry RUN-1 AUGE RISER 2 0 Well Diagram 2 5400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE'SOIL BORING&WELL LOGS/12.0075418.20_WELL LOGS_IN PROGRESS.GPJ ... 6/15/2010 1:48:42 PM ... Report: Log-GZA GEOTECHNICAL ...Template TEMPLATE.GDT 0 RUN-2 AUGER 5 3 0 10 Medium hard yellow brown fine to medium SAND, 0 some brown Clay, moist RUN-3 10¹² 12 0 15 Hard yellow brown CLAY, some fine to medium 0 15 15 20 9 SCREEN 0 20 0 RUN-5 15 15 25 0 25 0 Stiff brown CLAY, dry RUN-6 24 5 9 11 0 12.0 12 0 Stiff brown CLAY, moist RUN-7 4 6 12 13 0 14 14.0 14 0 Stiff grey CLAY, moist RUN-8 (12¹²) 13 24 25 15 0 16.0 16 0 Stiff grey CLAY, wet RUN-9 10¹² 12 24 17 0 18.0 18 0 19

Boring Log

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Project	Unimatic Manufacturing			Location		25	Sherwo	ood Lane			
Project N	lo. 12.0075418.20		. 1	Client	,	Uп			uring, Inc.		
	Company Hawk Drilling Company		ŀ	Elevation and		ım No	t Availa	ble			
	quipment Auger/Air rig Drilling Method HSA		ı	Date Started			/25/09	1	te Finished	11/25/09	,
Sampler			- 1	Final Boring I)	38 ft	De	pth to Rock		
1		op (in)	[:	Groundwater Depth (ft)		Ini	tial <u>V</u>		oletion <u></u>	_ 24 Hours <u>\unders</u>	
Drilling F	Todd & David & Derek	***	\perp	GZA Inspect	or ——		herine F	ang	ecked By	Ben Alter	
Depth (ft)	Sample Description	PIO Reading (ppm)	Ele (fi	MATERIAL SYMBOL	Number		コネ&ラー	N-Value (Blows/foot) 10 20 30 40			
F 0 -	Gravel	10	+	1///	7				0.5	⊹ :	
1 - 1 - 2 -	Red brown f-m silty SAND, some Fill, some Gravel	0			RUN-1	AUGEK 6			Contact	Well Diagram	
3 -		0			RUN-2	AUGER 12			0 7		
4 -	Dark brown f-m silty SAND. some Gravels, tightly packed	0			1-3	¥ .			4.0		
5 -		0			RUN-3	AUGEK 12		THE THE PROPERTY OF THE PROPER			
7 -		0	-		RUN4	AUGEK					
8 -		0			RUN-5	AUGEK 24		-			
10	Dark brown m-c SAND, some Gravels, little moist, trace Clay	0			•				10.0		
11 -		0			RUN-6	AUGEK 18					
13		0			RUN-7	AUGER 18					
14 -		0			-					Riser	
15 - 15 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17	Dark brown c SAND mixed with wood chip	0			RUN-8	AUGE 24			15.5 16.0		
17 -	Red Brown c SAND, some Gravels	0			RUN-9	24 24					
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19		0			RUN-10	A00Er			20.0		

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Boring Log

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum Drilling Company Not Available Hawk Drilling Company Sample Data PID Readin (ppm) N-Value (Blows/foot) Elev (ft) Depth Sample Description 20 0 Gravel, brown medium to coarse Sand (FILL) **RUN-11** AUGER 21 0 Well Diagram 22 0 Medium hard brown medium to coarse SAND, some gravels, wet **RUN-12** AUGER 2 23 0 24 0 **RUN-13** AUGER 25 0 26 0 **RUN-14** 27 0 28 0 Boulders **RUN-15** 8 29 0 30 0 **RUN-16** 8 31 0 32 Stiff brown fine to medium CLAY, little Gravel, 0 **RUN-17** 2 -Screen 33 Q 34 0 **RUN-18** 24 35 0 36 0 **RUN-19** 24 37 0 38 0 39 40

GZA GeoEnvironmental, Inc.



Boring Log MW-4B

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raject	Unimatic Manufacturing		۰۰۰ <u>حفتت</u>	. J & 2	rostion .		<u> </u>	25	Shene	/ood l	ane	C.S.		
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	Ompany Hawk Drilling Company			5	a noteve	nd D	alan	Not	Avai	able				
4.7	Auger/Air rig Drilling Method				ره مده س		:	3,	31/10	. 35. 5 - 3 - 3 - 3	200	do Finisho	- W.	11/10
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5 -		٥				RUN-8	AUGER	7				18.6		
Ł,	Dank brown c SAND mbod with wood drip	7										18.0		
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MW-4B **Boring Log**

Sheet 2 of 3

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Sample Data Elev (ft) N-Value (Blows/foot) Depth Sample Description (ft) 10 20 30 40 20 Gravel, brown medium to coarse Sand (FILL) 0 RUN-11 AUGER 9 21 0 Well Diagram 22 0 Medium hard brown medium to coarse SAND, some gravels, wet **RUN-12** AUGER 8 23 0 24 0 **RUN-13** AUGER 16 Riser 25 0 26 0 **RUN-14** AUGER 12 27 0 28 0 Boulders **RUN-15** AUGER 9 29 0 30 0 **RUN-16** AUGER 31 0 32 0 Stiff brown fine to medium CLAY, little Gravel, saturated **RUN-17** AUGER 2 33 0 34 0 **RUN-18** 9 35 0 36 0 **RUN-19** AUGER 8 37 Ò 38.0 38 0 Grey GRAVEL, saturated **RUN-20** AUGER 39 0 40 0 AUGER **RUN-21** 9 0

GeoEnvironmental, Inc.



Boring Log

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ojeat ajeat No.	Unimatic Manufacturing			···	Location Client	:		3.	3hen					- 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	-	
lling Con	12.0075416.20		enner Kommune	<u>المثالية</u> المحالية	Flouring	enel D	a i m	Uni	malic	Ma	nufe	ch	ıring	, Inc.		
	Hawk Drilling Company	e na at man tan	gana Doll		Elevation :	A.S. di Neros		Not	Avai mple C	labk)		elikures E	Charles (S.)	ety philippy (this body) back o	600.00 1000.000
epin (N)	Sample Description			[A SERVICE	į	district.		(Bi	Yea with					
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Project Location Unimatic Manufacturing 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Drilling Method Date Started Date Finished Drilling Equipment **HSA** 11/24/09 11/24/09 Sampler Final Boring Depth Depth to Rock 1.5" split spoon 18 ft Weight (lbs) Sampler Hammer Drop (in) Groundwater Initial 🔽 10 Completion T 24 Hours V Depth (ft) GZA Inspector **Drilling Foreman** Checked By Ben Alter **Brett & David** Catherine Fang PID Reading (ppm) Sample Data Elev N-Value (Blows/foot) Depth Sample Description (ft) (ft) 0 Loose brown medium SAND, some Gravel, little brick, dry AUGER RUN-1 2 1 0 Well Diagram Loose red brown fine to medium SAND, some O gravels, bricks, dry RUN-2 AUGER ∞ 0 Riser Loose dark brown fine to medium SAND, some 0 gravels, dry RUN-3 0 Loose brown SILT, some fine Sand, dry 0 RUN-4 AUGE <u>∞</u> 0 Loose brown fine to medium SAND, little Gravel 0 RUN-5 AUGE 0 10.0 0 Loose brown fine to medium SAND, little Silt ∞ 0 Screen Medium hard grey fine to medium SAND, little 0 Gravel RUN-1 0 Medium hard brown fine to medium SILT, some 0 brown fine to medium Sand RUN-8 0 0 Medium stiff fine to medium Silty CLAY, some brown fine to medium Sand 0 18.0 0 19

GeoEnvironmental, Inc.

Boring Log MW-8

Sheet

of

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Drilling Equipment Drilling Method **Date Started** Date Finished HSA 11/24/09 11/24/09 **HSA** Final Boring Depth Depth to Rock Sampler 20 ft 1.5" split spoon Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) 24 Hours V Initial 🔽 Completion T 13 Checked By Drilling Foreman Catherine Fang **Ben Alter Brett & David** Sample Data ⊟ev (ft) N-Value (Blows/foot) Depth **Sample Description** (ft) 10 20 30 40 0 FILL (non-native): asphalt, Gravel, dry RUN-1 0 Well Diagram 0 RUN-2 0 0 Loose brown medium to coarse SAND, little Gravel, dry RUN-3 Riser 0 Ó RUN-4 753 A48.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS1/2.0075418.20, WELL LOGS_IN PROGRESS OF THE CHICAL ... Template TEMPLATE.GDT 0 0 RUN-5 0 0 RUN-6 11 0 12 0 Dense brown Silt, some Gravel, wet RUN-7 13 0 0 RUN-8 15 Screen 0 16 0 RUN-9 0 0 **RUN-10** 0

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MW-9 Boring Log

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GeoEnvironmental, Inc.

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Project Location 25 Sherwood Lane Unimatic Manufacturing Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Date Started **Date Finished Drilling Equipment** Drilling Method **HSA** 11/24/09 11/24/09 **HSA** Depth to Rock Final Boring Depth Sampler 20 ft 1.5" split spoon Groundwater Sampler Hammer Weight (lbs) Drop (in) 24 Hours V Initial ∇ Completion _ Depth (ft) GZA Inspector Drilling Foreman Checked By Ben Alter **Brett & David** Catherine Fang Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Sample Description (ft) 0 FILL (non-native): loose brown Silt, some grey fine to medium Sand, some grey Gravel, dry RUN-1 띵 1 0 Well Diagram 2 JA75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS/12.0075418.20_WELL LOGS_IN PROGRESS.GPJ ... 6/15/2010 1-49:09 PM ... Report: Log NJ-GZA GEOTECHNICAL ...Template.TEMPLATE.GDT 0 RUN-2 FILL (non-native): loose brown Silt, some grey fine AUGE to medium Sand, wood and other filled material, 3 0 0 Loose brown SILT, some grey fine to medium Sand, little gravel, dry RUN-3 Riser 5 0 0 Loose brown SILT, little wood, dry RUN4 7 0 8.0 0 Loose brown SILT, some grey fine to medium Sand, dry RUN-5 9 0 10.0 10 .0 Loose brown SILT, little grey fine to medium Sand, dry RUN-6 AUGE 11 0 12 0 RUN-7 13 0 14 0 Screen 15 0 16 0 RUN-9 17 0 18 0 **RUN-10** 19 0

Boring Log MW-10

-Screen

Sheet of Project Location Unimatic Manufacturing 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum **Hawk Drilling Company** Not Available Drilling Equipment Drilling Method Date Started Date Finished 11/24/09 **HSA** 11/25/09 Final Boring Depth Depth to Rock Sampler 1.5" split spoon 18 ft Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial $\underline{\nabla}$ Completion V 24 Hours V Depth (ft) GZA Inspector **Drilling Foreman** Checked By **Brett & David** Catherine Fang Ben Alter Sample Data PID Reading (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Sample Description 10 20 30 40 0 FILL (non-native): loose light brown coarse Gravel, some fine to medium Sand, dry RUN-1 0 Well Diagram 0 RUN-2 0 Riser 0 RUN-3 0

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RUN4

RUN-5

RUN-6

RUN-7

RUN-8 AUGER

RUN-9

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Loose dark brown fine to medium SAND, little

brown coarse Gravel, dry

PE-2A/2B **Boring Log**

Sheet

GeoEnvironmental, Inc. 2 1 of Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Date Finished **Drilling Equipment Drilling Method Date Started** 10/15/09 11/18/09 **Direct Push** Geoprobe Depth to Rock Final Boring Depth Sampler 25 ft 5' acetate liner Groundwater Drop (in) Sampler Hammer Initial $\underline{\nabla}$ 24 Hours V Completion V Depth (ft) GZA Inspector Checked By Drilling Foreman Catherine Fang Ben Alter **Brett Pierson** Sample Data Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 0 FILL (native): loose dark brown medium to coarse Sand, leaves and roots, some coarse Gravel, dry 0 2 0 RUN-1 3 0 NY5400 TO 7559975418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/19/2010 5:38:36 PM ... Report Log - NY-62A GEOTECHNICAL ...Template TEMPLATE.GDT 0 0 0 0 PE-2A-8 was collected at 8' bg 0 Loose brown fine to medium SAND, some brown at 1430 on 10/15/09 Silt, little coarse Gravel, dry 9 0 10 0 0 0 RUN-3 8 13 0 0 0 Loose brown fine to medium SAND, some dense Silt, little Gravel, dry PE-2A-16C was collected at 16' bg at 1500 on 10/15/09 0 0 8 18 0 0

GZA GeoEnvironmental, Inc.

Sheet

of 2 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available Sample Data Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 20 21 0 22 Loose brown fine to medium SAND, some dense RUN-5 0 Silt, little Gravel, wet 8 23 0 24 PE-2B-24 was collected at 24' bg at 0900 on 11/18/09 0 25 0 26 28 29 32 33 34 35 36 37 38 39

nt: Log - NJ-GZA_GEOTECHNICAL ... Template

18.2, UNIMATIC ISRA CLOSURE/GINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:47:35 AM ... R

Boring Log PE-3A/3B

GZA GeoEnvironmental, Inc.

Sheet

of

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Project Project No	Unimatic Manufacturing	c	lient				ood Lane		
Drilling Co	12.0073416.20		1_1_	evation and	l Date				turing, Inc.
	nawk Dilling Company	,				1	Not Avail	able	nto Cinishad
Drilling Eq	ulpment Power-probe Dirllling Method Direct Pu	sh		ate Started			10/15/09		ate Finished 12/30/09
Sampler	4' acetate liner		t	nal Boring (1	32 ft		epth to Rock
Sampler H	lammer Weight (lbs) Dr	op (in)	- ID	roundwater epth (ft)			Initial <u>V</u>		npletion 24 Hours
Drilling Fo	reman Brett, Steve&Bryan		G	ZA Inspecto	or	С	atherine	Fang C	hecked By Ben Alter
		g.		렇		_	Sample D	ata	
Depth (ft)	Sample Description	PID Reading (ppm)	Elev (ft)	MATERIAL SYMBOL	Number	Type	Recov. (in) Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40	
- 0 - 1	FILL (native): loose brown fine to medium Sand, some brown Silt, bricks, dry	1 1					}		
1 4	Some brown out, bricks, dry			\bowtie		N	İ		
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- 8 -									PE-3A-8 was collected at 1320 on 10/15/09
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- 9 -			1.	*****					
- 40 =					RUN-3	8	24		
- 10 -					교	$ \mathcal{A} $.		
1, 1			.						
- 11 -									
12		_							
- '	Brown coarse GRAVEL, some grey medium Sand, dry		·	[0,~				The state of the s	
13 -				60/					
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14		4		54.5	RUN-4	GP	30		
- " =	Medium dense grey fine to medium SAND, dry				<u>ਕ</u>				
15	·]	$ \ \ $			
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46 -					<u> </u>			4	PE-3A-16C was coll
- 16 -]				16' bg at 1330 on 10
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roject	Unimatic Manufacturing			· 1	ocation		2	5 Sherv	vood Lane		
roject No.	12.0075418.20			. [lient		Ų		Manufacti		
rilling Company	Hawk Drilling Company	4.		E	levation an	d Dati	M N	ot Avai	lable		
Depth (ft)	Sample Description		PID Reading (ppm)	Eler (ft)	MATERIAL SYMBOL	Number	-	(in) Penetr. Resist :	N-Value (Blows/foot)	Ren	narks
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24 Stiff	grey CLAY, saturated	<u> </u>	0				\mathbb{H}	-	AMERICAN CANADA	PE-3B-24 was	collected at
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Boring Log PE-18B

GeoEnvironmental, Inc. Sheet of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Date Started Date Finished **Drilling Equipment Drilling Method** 10/22/09 11/2/09 Geoprobe Direct Push/HSA Depth to Rock Final Boring Depth Sampler 36 ft 36 ft 4' acetate liner Weight (lbs) Groundwater Sampler Hammer Drop (in) Completion _ 24 Hours V Initial 🔽 Depth (ft)
GZA Inspector Drilling Foreman Checked By Catherine Fang Ben Alter **Brett & Todd** Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev Depth Remarks Sample Description Penetr resist Bl/6in (ft) Type (ft) FILL: loose yellow fine to medium Sand, some cobbles, dry 0 RUN-1 36 0 3 0 0 FILL: loose brown fine to medium Sand, some Silt, some Cobble, dry 5 0 RUN-2 0 0 0 0 RUN-3 36 10 0 11 0 12 0 FILL: loose red brown fine to medium Sand, some Silt, cobbles, dry 13 0

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RUN-5 GP

J.YS400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINTY12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:47:16 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

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Loose brown fine to medium SAND, dry

roject	Unimatic Manufacturing		.	Location		25	Sherwood Lan	16	
roject No.	12.0075418.20			Client			imatic Manufa		٠.
illing Comp	Pany Hawk Drilling Company			Elevation an	d Da	h im-	t Available		٠.
		ding				Sa	ample Data	<u> </u>	
epth (ft)	Sample Description	PID Reading (ppm)	(1	MATERIAL SYMBOL	Number	Type (in)	N-Value (Blows/foo		
20 -	Loose brown fine to medium SAND, wet	0	+		Ž	N 2	10 20 30 4	40	•
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Boring Log Pink-1A/1B

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Sheet of Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Date Finished Date Started **Drilling Equipment** Drilling Method 10/19/09 12/30/09 **Direct Push** Geoprobe Depth to Rock Final Boring Depth Sampler 34 ft 34 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Weight (lbs) Drop (in) Sampler Hammer Completion ____ Initial ∇ 24 Hours V Checked By Drilling Foreman Catherine Fang Ben Alter Brett & Steve & Bryan Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev (ft) Depth Remarks **Sample Description** Recov. (ft) 0 FILL (native): loose yellow medium to coarse Sand, Asphalt, some Gravel, dry 1 0 RUN-1 24 2 0 3 0 0 0 RUN-2 別 24 0 0 0 0 RUN-3) 10 0 0 12 0 0 8 0 0 16 0 0 RUN-5 8 2 18 0 19 0

GeoEnvironmental, Inc.

Sheet

2

of 2

Project Location **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available Sample Data PID Reading (ppm) Depth (ft) Elev N-Value (Blows/foot) Remarks Sample Description (ft) 20 Loose red brown fine to medium SAND, some brown Silt, little Gravel, wet 21 22 0 23 0 24 Red brown fine to medium SAND, saturated 0 25 0 RUN-7 26 8 0 27 0 28 Pink-1A-28 was collected at 0 28' bg at 1600 on 10/19/09 RUN-8 29 Medium dense red brown coarse SAND, wet 0 30 0 31 0 RUN-8 36 32 0 33 0 34 Pink-1B-34 was collected at 34' bg at 1035 on 12/30/09 0 35 36 37 38 39

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755400 TO 73. 6418.2, UNIMATIC ISRA CLOSUREIGINT1/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:48:33 AM ...

GZA GeoEnvironmental, Inc.

Pipe-1 Boring Log

Sheet of

Project	Unimatic Manufacturing					cation		25	Sherw	ood Lane)	
Project No.	12.0075418.20				1	ent		Uı	nimatic	Manufact	uring, inc.	
rilling Company	Hawk Drilling Company				1	evation an		tum No	ot Avail	able		
rilling Equipment	Geoprobe Drilling Meth	od Direct Pus	sh		Da	te Started		12	2/17/09	D	ate Finished	12/17/09
sampler	4' acetate liner				Fir	nal Boring	Dep		8 ft	Þ	epth to Rock	_
Sampler Hammer	Weight (lbs)	_ Dro	p (in)	_	Gr	oundwate oth (ft)	r	In	itial 🔽		pletion <u></u>	_ 24 Hours <u>\(\mathbf{Y} \)</u>
Orilling Foreman	Brett Pierson				GŽ	A Inspec	or	—,L	therine	Fang C	hecked By	Ben Alter
	Drott Horson	1 - 1	ξ	Т		7.			Sample Da			DOTTALO
Depth (ft)	Sample Description	•	PID Reading (ppm)	. E	Elev. (ft)	MATERIAL	Number	Type Recov.	(in) Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40		Remarks
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Pipe-2 Boring Log

Sheet

of 1

Project		Unimatic Manufacturing	Location 25 Sherwood Lane
Project N	1 0.	12.0075418.20	Client Unimatic Manufacturing, Inc.
Drilling C	Company	Hawk Drilling Company	Elevation and Datum Not Available
Drilling E	quipment	Geoprobe Drilling Method Direct Push	Date Started 12/17/09 Date Finished 12/17/09
Sampler		4' acetate liner	Final Boring Depth 8 ft Depth to Rock -
Sampler	Hammer	Weight (lbs) Drop (in)	Groundwater
Drilling F	oreman	Brett Pierson	Depth (ft)
			Sample Data
Depth (ft)		[]	lev. Remarks (ft) Lev. Lev. Lev. Lev. Lev. Lev. Lev. Lev.
F " :	Soft b	own Silty CLAY, some grey Gravel, dry	
2 -			RUN-1 GP 12
3 -		0	Pipe-2-3 was collected at 3' bg at 1110
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7 -		0 0	RUN-2 GP 6 6
- 8 -	· ·	.0	Pipe-2-8C was collected at 8'
9 -			bg at 1115
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Boring Log Pipe-3

Sheet

of

Project Location 25 Sherwood Lane Unimatic Manufacturing Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum Drilling Company Not Available Hawk Drilling Company Date Started Date Finished **Drilling Equipment Drilling Method Direct Push** 12/17/09 12/17/09 Geoprobe Final Boring Depth Depth to Rock Sampler 8 ft 4' acetate liner Groundwater Weight (lbs) Drop (in) Sampler Hammer 24 Hours 🔽 Initial ∇ Completion ____ Depth (ft)
GZA Inspector Drilling Foreman Checked By Catherine Fang Ben Alter **Brett Pierson** Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev (ft) Depth Remarks **Sample Description** (ft) 0 Loose brown SILT, some grey coarse Gravel, dry 0 RUN-1 24 0 Pipe-3-3 was collected at 3' bg 0 at 1120 0 0 0 0 Pipe-3-8C was collected at 8' 0 bg at 1125 10 11 12 13 14 15 16 18

1/175400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS GPJ ... 6/14/2010 11:48:49 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT



Boring Log Pipe-4

Sheet

of

Project No	Unimatic Manufacturing 12.0075418.20		Cli	ent					vood L Manu		turing, Inc.	· · · · · · · · · · · · · · · · · · ·
Drilling Co	mpany Hawk Drilling Company		Ele	vation an	d Da	4		Avai		iac	turing, iric.	· · · · · · · · · · · · · · · · · · ·
Drilling Ed	ulpment Geoprobe Dirlling Method Direct Push	. '	Da	te Started	1			17/09	-	0	ate Finished	12/17/09
Sampler	4' acetate liner		Fin	al Boring	Dep	th	121	8 ff		t	epth to Rock	12/1/109
Sampler I	lammer Weight (lbs) Drop	(in) _	Gre	oundwate	r		Initi	al <u>∇</u>		Cor	npletion	_ 24 Hours <u>V</u>
Drilling Fo	reman Brett Pierson	<u>-</u> _	GZ	pth (ft) 'A Inspec	or				Fang		booked By	Ben Alter
		<u>g</u>	4	٠,١				mple D	ata			Dell Altei
Depth (ft)	Sample Description	PID Keading (ppm)	Elev. (ft)	MATERIAL	Number	Туре	Recov. (in)	Penetr. resist Bl/6in	N-Va (Blows/ 10 20 3			Remarks
- 0 -	Loose brown Silty SAND, some grey coarse Gravel, dry									-		
- 1 -	Clavol, diy											
= =		0			_							
- 2 -					RUN-1	8	12					
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- 3 -		0	1					. 1			Pipe-4-3	was collected at 3' b
3			•								at 1130	
- 4 寸	Loose brown medium to coarse SAND, dry	0		د لد ابدا								
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GZA GeoEnvironmental, Inc.

Boring Log SB-7A

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Drilling Co	nawk Drilling Company			Elevation and			lot Avai	lable	uring, Inc.
Drilling Eq		sh		Date Started		1	0/13/09	Da	ate Finished 10/13/09
Sampler	4' acetate liner			Final Boring I	·		12 f	t D	epth to Rock
Sampler F	-	op (in)	-	Groundwater Depth (ft)			Initial <u>V</u>		pletion 24 Hours 1
Drilling Fo	Brett Pierson	••		GZA Inspect	or	S	andeep	Singn	hecked By Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	E) ((t) NATERIAL SYMBOL	Number	Туре	Sample D resist Bl/6in	NI Malus	Remarks
- 0 +	GRAVEL	7-01-	1	66	_				
1 -	Red brown f silty SAND, some Gravel, Artificial fill, dry loosly packed	0					ļ.		
			1		-				
2 -	•	0			RUN-1	9	ဖ		
3 -	•								
<u> </u>		, O							
4 -		0							
-									·
5 -	Dark brown f-m silty SAND, tightly packed, some Gravels, trace Cobbles, dry				5				
6 =		0	ŀ		RUN-2	9	ဖ		Sample SB-7A-6 collected
<u> </u>					"				1025
7 -		0							
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F 10 -		0			RUN-3	O N	9		Sample SB-7-10-C collect
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12	End of GeoProbe at 12'.	\dashv \bullet			\vdash	H		1	
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Boring Log

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Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Not Available **Hawk Drilling Company** Drilling Equipment Date Started Date Finished **Drilling Method** 3/25/10 3/25/10 HSA Depth to Rock Sampler Final Boring Depth 32 ft 1.5" split spoon Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) 24 Hours 🔽 Initial 🔽 Completion I 16 **Drilling Foreman** Checked By Catherine Fang Ben Alter Todd, David & Derek PID Reading (ppm) Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 0 FILL (non-native): asphalt 0 RUN-1 읪 0 0 0 Brown SILT, some grey coarse Gravel, dry 0 RUN-2 9 0 0 Dense brown SILT, dry 0 0 RUN-3 <u>B</u>[` 10 0 11 0 12 0 Soft brown medium to coarse SAND, dry 13 0 RUN4 B S 0 15 0 16 Soft brown medium to coarse SAND, wet 0 17 0 RUN-5 36 18 0 0

or: Log - NJ-GZA_GEOTECHNICAL ... Template 5418.2, UNIMATIC ISRA CLOSUREIGINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:59:41 AM ... GeoEnvironmental, Inc.

SB-26A . Boring Log

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Sheet of Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company **Not Available** Hawk Drilling Company Sample Data Elev (ft) N-Value (Blows/foot) Remarks Depth Sample Description (ft) 20 0 21 0 RUN-6 မ္ 8 22 0 23 0 Loose red brown fine to medium SAND, some Gravel, saturated UNTS400 TO 75599175418.2, UNIMATIC ISRA CLOSUREIGINTN 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:59:43 AM ... Report. Log - NJ-GZA_GEOTECHNICAL ...Template TENPLATE.GDT 24 0 25 0 RUN-7 읤 8 26 0 27 0 28 SB-26A-28 was collected at 28' 0 bg at 1700 RUN-8 дS 29 0 30 0 Loose red brown mediume to coarse SAND, some Clay, saturated RUN-9 AUGER 8 31 0 32 SB-26A-32 was collected at 32' 0 bg at 1705 33 34 35 36 37 38 39

GeoEnvironmental, Inc.

GZA GeoEnvironmental, Inc.

Sheet of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Drilling Method **Drilling Equipment** Date Started Date Finished **Direct Push** 4/21/10 4/21/10 Geoprobe Depth to Rock Sampler Final Boring Depth 32 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion T 24 Hours V Checked By Drilling Foreman Catherine Fang Ben Alter Steve & Andrew PID Reading (ppm) Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 0 Loose red medium SAND, some Gravel, dry RUN-1 RUN-2 10 Medium dense red medium SAND, some Silt, some Gravel, dry 12 RUN4 16 17 RUN-5 P[] & 18

r: Log - NJ-GZA_GEOTECHNICAL ...Template .18.2, UNIMATIC ISRA CLOSUREIGINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:59:48 AM ...

Boring Log

SB-27C

Sheet

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Hawk Drilling Company Not Available Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev (ft) Remarks Depth (ft) **Sample Description** 20 21 RUN-6 36 22 23 1/75400 TO 7559975418.2, UNIMATIC ISRA CLOSURE/GINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:59:49 AM ... Report Log - NJ-GZA_GEOTECHNICAL ...Template The transfer of protein the company of the c 25 RUN-7 위 3 26 27 28 0 Medium hard brown CLAY, wet 29 0 RUN-8 G 84 30 Ö Dense brown SILT, wet 31 0 SB-27C was collected from 32' bg at 1100 32 0 33 34 35 36 37 38 39

GZA GeoEnvironmental, Inc.

SB-29A/29B

GZA GeoEnvironmental, Inc.

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Project		Unimatic Manufa	cturing				1	cation		2	25 Sh	erw	ood L	ane				
Project No		12.0075418.20					Client Unimatic Manufacturing, Inc.											
rilling Co		Hawk Drilling Cor	npany			. ;	1	evation an		ium N	Not A	vaila	ble					
	quipment	Geoprobe	Drilling Method	Direct P	ush		Date Started 10/15/09								Date Finished 4/21/10			
ampler		4' acetate liner					Final Boring Depth 32 ft							Depth to Rock				
Sampler Hammer Weight (lbs) Drop (in)				Gr De	oundwate opth (ft)	r		Initial 5	Z	20		eletion 🕎	_ 24	Hours 🤦	7			
rilling Fo	oreman	Brett, Steve & An	drew		, ,		GZ	A Inspect	or	С	ather	ine	Fang	Ch	ecked By	Ben Al	ter	
Depth (ft)	,	*	escription		PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number		Samp (in) vo	e Da		lue (foot)		Rema		
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75400 TO 75. 5418.2, UNIMATI

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GZA GeoEnvironmental, Inc.

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Project No.	Unimatic Manufacturing	,		Clie	ant .					ood Lane	
Project No	12.00/5418.20	<u> </u>		ł		-		Uni	natic	Manufactu	iring, Inc.
Drilling Co	Hawk Drilling Company			Lie	vation and	Da	um		Avail		
Depth (ft)	Sample Description	PID Reading (ppm)	E (lev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bl/6in aldu	N-Value (Blows/foot) 10 20 30 40	Remarks
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Boring Log SB-36A

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Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company **Drilling Equipment** Drilling Method Date Started Date Finished **Direct Push** 10/15/09 10/15/09 Geoprobe Sampler Final Boring Depth Depth to Rock 16 ft 4' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 Completion T 24 Hours V Depth (ft)
GZA Inspector Checked By **Drilling Foreman** Ben Alter **Brett Pierson** Catherine Fang Sample Data PID Reading (ppm) ⊟ev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 0 Loose yellow fine to medium SAND, some brown coarse Gravel, dry 0 RUN-1 ည 24 0 0 0 0 36 0 0 0 0 RUN-3 5 0 0 12 Loose dark brown fine to medium SAND, some 0 brown coarse Gravel, little brown Clay, dry 0 RUN4 0 0 16 0 SB-36A-16 was collected at 16' bg at 1000 17 19

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375400 TO 753 418.2, UNIMATIC ISRA CLOSUREIGINT\12.0075418.20_BORING LOGS.GPJ... 6/14/2010 12:30:13 PM ...

Boring Log

SB-37A

Sheet

of

2

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Drilling Method Date Finished Date Started **Drilling Equipment** 3/9/10 Power-probe **Direct Push** 3/9/10 Depth to Rock Final Boring Depth Sampler 30 ft 5' acetate liner Groundwater Weight (lbs) Drop (in) Sampler Hammer Initial ∇ Completion T 24 Hours 🔽 Depth (ft). GZA Inspector Checked By Drilling Foreman Ben Alter Sandeep Singh Steve & Andrew Sample Data PID Reading (ppm) Elev (ft) Depth (ft) Remarks Sample Description 10 20 30 40 0 Red brown fine silty SAND, some grass, moist 0 JA75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURENGINTA 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:00:19 PM ... Report. Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 0 RUN-1 4 0 0 Ó 0 0 4 8 0 9 0 0 Dark brown clayey SAND, tightly packed, moist SB-37A-10 collected at 10-10.5' bg at 1245 11 0 12 RUN-3 0 [B 8 13 0 0 15 0 16 0 17 0 RUN4 SB-37A-18 collected at 18 0 17.5-18.0' bg at 1245 19 0

GeoEnvironmental, Inc.

GeoEnvironmental, Inc.

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2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available Hawk Drilling Company Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 20 Dark brown m SAND, some Clay, tightly packed, saturated at 20' bgs 0 21 0 22 Dark brown m-c SAND, some Clay, tightly packed 0 RUN-5 23 0 0 25 0 26 SB-37A-26 collected at 25.5-26' bg at 1245 0 27 0 8 28 0 29 0 30 SB-37A-30 collected at 29.5-30' bg at 1245 0 31 32 33 34 35 36 37 38 39

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418.2, UNIMATIC ISRA CLOSUREIGINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:00:22 PM...

GZA GeoEnvironmental, Inc.

Boring Log SB-39A

Sheet

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Project No	Unimatic Manufacturing		• •		ocation Client	-			ood La				
•	12.0075418.20			- 1	Unimatic Manufacturing, Inc.								
Drilling Co	Hawk Unlling Company	 					" Not	Avail	able	10.	la Galabad		
Drilling Eq	puipment Power-probe Drilling Method	Direct F	ush		Date Started		;	3/9/10		.1	e Finished 3/9/10		
Sampler	5' acetate liner				inal Boring		n .	26 ft		De	oth to Rock		
Sampler F	lammer _ Weight (lbs)	-	Drop (in)	- 10	Froundwater Depth (ft)		Init	ial <u>V</u>	15		eletion 💆 💄 24 Hours 🕎		
Drilling Fo	Steve & Andrew	· · ·		Ö	ZA Inspect	OF	Cath	erine	Fang	Ch	ecked By Ben Alter		
			Bull		ą		Sa	mple D	ata				
Depth (ft)	Sample Description		PID Reading (ppm)	Elev (ft)	MATERIAL	Number	Type (in)	sist.	N-Vali (Blows/I	ue foot)	Remarks		
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SB-39A Boring Log

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epth (ft)	Sample Description	PID Reading (ppm)	Elev.	MATERIAL SYMBOL	Number	Type	§.∈	Penetr. resist Bl/6in	N-Value (Blows/foot)	Remarks					
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418.2, UNIMATIC ISRA CLOSUREIGINT12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:00:31 PM ...

SB-40A Boring Log

GeoEnvironmental, Inc. Sheet 1 of 1 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Drilling Method **Date Started** Date Finished Drilling Equipment 3/9/10 **Direct Push** 3/9/10 Geoprobe Depth to Rock Final Boring Depth Sampler 16 ft 4' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 24 Hours V Depth (ft) GZA Inspector Checked By Drilling Foreman Sandeep Singh Ben Alter **Bret Pierson** Sample Data Elev (ft) Depth Remarks Sample Description (ft) 10 20 30 40 0 Dark brown fine SAND, some grass, moist, tightly 0 RUN-1 2 0 3 0 0 Dark brown clayey SAND, tightly packed, moist 5 0 0 0 0 0 8 မွု SB-40A(10) collected at 10-10.5' bg at 1125 10 0 11 0 Ò Dark brown m SAND, some Clay, tightly packed, saturated at 16' bgs 13 0 RUN-4 요[] 8 14 0 15 0 SB-40A(16) collected at 16 0 15.5-16.0' bg at 1125 18

J.Y75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURENGINTY 12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:00:38 PM ... Report: Log · NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

GZA GeoEnvironmental, Inc.

Sheet

2 of Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available **Drilling Equipment** Date Finished **Drilling Method Date Started Direct Push/HSA** 10/22/09 11/2/09 Geoprobe Final Boring Depth Depth to Rock Sampler 37 ft 37 ft 4' acetate liner & 1.5" split spoon Sampler Hammer Groundwater Weight (lbs) Drop (in) Initial 🔽 Completion T 24 Hours V 20 Depth (ft) GZA Inspector Checked By **Drilling Foreman Brett & Todd** Catherine Fang Ben Alter Sample Data PID Reading (ppm) Elev (ft) N-Valué (Blows/foot) Depth Remarks Sample Description ₹ Fye (ft) 10 20 30 40 0 FILL (native): loose dark brown fine to medium SAND, some brown coarse Gravel, dry 0 RUN-1 24 2 0 3 0 0 0 RUN-2 36 0 1/175400 TO 753 LOGA18.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 6/19/2 NJ-GZA GEOTECHNICAL ... Template TEMPLATE.GDT 0 Loose brown fine to medium SAND, some Silt, 0 cobble, dry 0 요) 36 0 0 12 0 13 0 RUN4 8 0 15 0 16 0 17 0 RUN-5 B 36 18 0 19 0

Boring Log

SB-41B

Sheet

of

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Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Not Available Hawk Drilling Company Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev (ft) Remarks Depth Sample Description 728 (ft) 20 Loose brown fine to medium SAND, some Silt, 0 cobble, wet 21 0 RUN-6 22 0 23 0 JY75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:00:51 PM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 24 0 25 0 RUN-7 $\frac{9}{2}$ 26 0 27 Ò 28 0 RUN-8 AUGER 29 0 30 0 RUN-9 AUGER 8 31 0 Medium dense brown medium to coarse SAND, saturated 32 0 **RUN-10** AUGER 8 33 0 34 0 RUN-11 AUGER 35 0 36 0 3UN-12 AUGEF SB-41B-37 was collected at 37 bg at 1210 on 11/02/09 37 0 38 39

GZA GeoEnvironmental, Inc. GZA GeoEnvironmental, Inc.

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of 2

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Orilling C	Ompany Hawk Drilling Company		-	Elevation an	d Da	4		Availa			3,				_
Orilling E	quipment Geoprobe Drilling Method Direct Push)		Date Started				1/09		Da	ate Finished	10/	21/09		_
ampler				Final Boring	Dep	th		32 ft	·	De	epth to Rock				
ampler	Hammer Weight (lbs) Drop	(in)	_	Groundwate	r				18	Com	pletion 🕎	-	24 Hours	V	_
Prilling F	oreman Brett Pierson			Depth (ft) GZA Inspect	or		·	erine l		CI	hecked By	Ben	Alter		_
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Depth (ft) - 0 —	Sample Description	PID Reading (ppm)	Ele (f	MATERIAL SYMBOL	Number	Туре	Recov.	resist Bl/6in	N-Val (Blows/ 10 20 3			Rer	marks		_
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SB-43A Boring Log

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of 2 Project Location 25 Sherwood Lane Unimatic Manufacturing Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available **Hawk Drilling Company** Sample Data PID Readin (ppm) Elev (ft) N-Value (Blows/foot) Remarks Depth Sample Description (ft) 20 0 21 0 22 0 23 0 SB-43A-24 was collected at 24' 0 Medium dense grey fine to medium SAND, some bg at 0910 grey Silt, saturated 25 0 RUN-7 မြ 5 26 0 27 0 28 0 29 0 RUN-8 B 30 0 31 -0 SB-43A-32C was collected at 32' bg at 0940 32 0 33 34 35 36 37 38 39 40

GZA GeoEnvironmental, Inc.

Boring Log

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of Sheet Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Hawk Drilling Company

Drilling Method Not Available Date Finished **Drilling Equipment Date Started** 1/4/10 10/23/09 **Direct Push** Geoprobe Depth to Rock Final Boring Depth Sampler 35 ft 35 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) 24 Hours V Initial 🔽 Completion T 18 Depth (ft) GZA Inspector Checked By **Drilling Foreman** Brett, Steve & Bryan Catherine Fang Ben Alter Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description 7,78 (ft) 10 20 30 40 0 FILL (non-native): loose yellow fine to medium Sand, cobble, brick, dry 0 RUN-1 0 Q FILL (non-native): loose grey fine to medium 0 Sand, cobble, dry 0 RUN-2 g(36 0 0 0 Loose brown fine to medium SAND, some brown Clay, dry 0 RUN-3 요) 0 0 0 0 RUN4 0 15 0 16 Medium dense brown fine to medium SAND, 0 some Clay, wet at 18' bg 17 0 RUN-5 GP 8 18 0 19 0

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GeoEnvironmental, Inc.

418.2, UNIMATIC 1SRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:01:17 PM ...

SB-56B Boring Log

Sheet

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of 2 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Not Available **Hawk Drilling Company** Sample Data N-Value (Blows/foot) ⊟ev (ft) Depth (ft) Remarks Sample Description 20 21 0 RUN-6 22 0 23 0 IN75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:01:19 PM ... Report. Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE GDT THE THE FORT 24 0 Medium dense brown fine to medium SAND, some Clay, saturated 25 0 RUN-7 26 0 27 0 28 0 29 0 Medium dense brown medium to coarse SAND, some brown coarse Gravel, wet RUN-8 9 36 30 0 31 0 32 0 33 0 34 0 SB-56B-35 was collected at 35' bg at 0920 at 01/04/10 35 36 37 38 39

GZA GeoEnvironmental, Inc.



SB-60C **Boring Log**

Sheet

of

2 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Hawk Drilling Company
Drilling Method Elevation and Datum Not Available **Drilling Equipment** Date Finished **Date Started** Geoprobe **Direct Push** 4/21/10 4/21/10 Sampler Final Boring Depth Depth to Rock 4' acetate liner 32 ft Groundwater Depth (ft) GZA Inspector Sampler Hammer Drop (in) Weight (lbs) Initial $\underline{\nabla}$ Completion **T** 24 Hours V **Drilling Foreman** Checked By Steve & Andrew Catherine Fang Ben Alter PID Reading (ppm) Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Sample Description Remarks 0 Asphalt 0 Dark brown fine to medium SAND, dry 0 RUN-1 g B 0 0 0 0 RUN-2 9 28 0 0 Brown SILT, wet 0 0 RUN-3 (G) 10 36 0 0 Loose brown medium SAND, wet 12 0 13 .0 RUN4 36 0 0 16 0 17 0 RUN-5 18 8 0 19 0

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118.2, UNIMATIC ISRA CLOSUREIGINT112.0075418.20_BORING LOGS.GPJ.... 6/14/2010 12:01:25 PM ...

SB-60C Boring Log

Sheet 2 of 2

GZA GeoEnvironmental, Inc.

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Remarks Depth (ft) Sample Description Type 20 0 21 0 RUN-6 망 8 22 0 23 0 JYZ5400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREKGINTY12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:01:27 PM ... Report Log - NJ-GZA_GEOTECHNICAL ..Template | FEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT | PEFT 24 0 25 0 RUN-7 B 8 26 0 27 0 28 0 Dense brown fine SAND, saturated 29 0 RUN-8 8 ₩, 30 0 31 0 SB-60C-32 colleted at 32' bg at 1000 32 0 33 34 35 36 37 38 39 40

SB-69A Boring Log

Sheet

of

SB-69A-20C was collected at

20' bg at 1030

1 1 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Drilling Method Date Finished **Drilling Equipment** Date Started 10/19/09 10/19/09 **Direct Push** Geoprobe Depth to Rock Final Boring Depth Sampler 20 ft 4' acetate liner Weight (lbs) Groundwater Sampler Hammer Drop (in) Initial 🔽 Completion \(\bar{\pi}\) 24 Hours V Depth (ft) GZA Inspector **Drilling Foreman** Checked By Catherine Fang Ben Alter **Brett Pierson** PID Reading (ppm) Sample Data Depth (ft) Remarks Sample Description (ft) 10 20 30 40 0 FILL (non-native): ash, grass, some loose fine to medium Sand, dry 0 8 0 0 0 0 RUN-2 g Loose brown fine to medium SAND, some brown 0 Silt, dry 0 0 0 RUN-3 歄 10 Loose yellow brown fine to medium SAND, some brown fine to medium Silt, dry 0 0 12 SB-69A-12 was collected at 12' 0 bg at 1020 13 RUN-4 မ 0 15 0 16 Medium dense brown fine to medium SAND, 0 some brown Silt, dry 17 0 RUN-5 8 18 Medium dense grey medium to coarse SAND, wet 0

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GZA GeoEnvironmental, Inc.

Project	Unimatic Manufacturing				ocation			25 5	Sherwood	Lan	е	
Project N				10	Client						cturing, Inc.	
Drilling Co	ompany Hawk Drilling Company			E	Bevation and	d Da	friend		Available			
Drilling Éd	Drilling Mathod	Duch	•	10	Date Started				19/09		Date Finished	1/4/10
Sampler	Geoprobe Direct r	uəll		− F	inal Boring	Dept		10/	35 ft		Depth to Rock	35 ft
Sampler I	4' & 5' acetate liner Hammer [Weight (lbs)	Drop (i	n)	+	Groundwater	r		Initia	<u>ວວ ແ</u> ∄⊈ 18	Cor	mpletion Y	_ 24 Hours <u>\\ \\ \\ \\ \</u>
Drilling Fo	oromon.	L			Depth (ft) SZA Inspect	or				-1-72	Shooked By	
	Brett, Steve & Bryan	p		1					erine Far nple Data	1 g		Ben Alter
Depth (ft)	Sample Description	PID Reading	(mdd)	Elev (ft)	MATERIAL SYMBOL	Number	Type		Bsist Il/6in RB)	-Value ws/foot 20 30 4	•	Remarks
- 0 -	FILL (native): brown coarse Gravel, some grey	•										
: , ;	fine to medium Sand, dry		1									-
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- 9 -		(D.		*****]				
= =		- 1	ľ	1	****				-			
- 10 -	FILL (non-native): loose light brown fine to	─)								-	
= =	medium Sand, dry											
- 11 -			ו		****							

- 12 -			o	1		5					SB-70A-	12 was collected 55 on 10/19/09
: :						RUN-3	9	8			Ug at 10	55 UH 10/13/03
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			1			1]				
14 -			0			1						
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_ 15 _	Medium dense brown SILT, some brown Sand,	┥,	0				┼	1				
	dry					1						
11	Medium dense brown SILT, some brown Sand,		0			1						
}	wet at 18' bg				<u> </u>	4						
17 -		1,	。		<u> </u>	RUN-4	8	ဗ္ဗ				
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E 20 =	1		- 1	1	l. —	1 쪽	17	۱.	1 1 1	1 [20 bg a	t 1110 on 10/19/0

SB-70A/70B

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Sheet of Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available **Hawk Drilling Company** Sample Data PID Reading (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 20 Loose brown fine to medium SAND, little Silt, wet 21 0 22 0 23 0 24 0 RUN-6 25 Medium dense brown medium to coarse SAND, 0 some brown coarse Gravel, saturated 26 0 27 0 28 SB-70B-28 was collected at 28' bg at 1138 at 01/04/10 0 RUN-7 8 29 0 30 0 31 0 32 0 RUN-8 8 33 0 34 0 35 0 SB-70B-35C was collected at 35' bg at 1140 at 01/04/10 36 37 38 39

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Boring Log

SB-78B

Sheet

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Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company Not Available** Hawk Drilling Company Drilling Method Drilling Equipment Date Started Date Finished 10/21/09 **Direct Push** 10/21/09 Geoprobe Final Boring Depth Depth to Rock Sampler 28 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Weight (lbs) Sampler Hammer Drop (in) Initial 🔽 Completion T 24 Hours V Checked By **Drilling Foreman** Catherine Fang Ben Alter **Brett Pierson** Sample Data PID Readin (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks **Sample Description** (ft) 0 FILL (native): loose grey fine to medium Sand, some brown coarse Gravel, dry 1 0 RUN-1 8 2 0 3 0 0 0 RUN-2 0 0 0 0 FILL (non-native): Loose light brown medium Sand, dry RUN-3 ဗ 10 Ó 0 12 0 Loose brown SILT, some brown medium Sand, moist 13 0 RUN-4 읪 24 14 0 0 16 Medium dense brown fine to medium SAND, little 0 brown coarse Gravel, wet 17 0 RUN-5 P 2 18 0 0

GeoEnvironmental, Inc.

Boring Log SB-78B

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Sheet

of

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Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Hawk Drilling Company Not Available PID Reading (ppm) Sample Data Depth (ft) Elev (ft) Remarks Sample Description 10 20 30 40 20 Medium dense brown fine to medium SAND, little SB-78B-20 was collected at 20 bg at 0930 brown coarse Gravel, saturated 21 0 8 22 0 23 0 24 0 25 0 RUN-7 g) 26 Stiff brown CLAY, some brown medium Sand, 0 saturated 27 0 28 SB-78B-28C was collected at 28' bg at 1000 0 29 30 31 32 33 35 36 37 38 39 40

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Boring Log SB-82A

GZA GeoEnvironmental, Inc.

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Drilling C	nawk Drilling Company				levation and				Avail			uring, Inc.	
	quipment Geoprobe Drilling Method Direct Pus	sh/HS	SA	1	ate Started			10/2	23/09			te Finished	10/29/09
Sampler	4' acetate liner&1.5" split spoon				inal Boring		h		36 ft				36 ft
Sampler	•	op (in)	-	10	iroundwater lepth (ft) iZA Inspect			· -	al <u>V</u>	22	TOL	pletion necked By	_ 24 Hours <u>\unders</u>
Drilling F	Brett & Todd	T 100			I I I I I	UI .			erine mple Da		Ц".	T T	Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)		Elev (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist	N-V (Blows 10 20			Remarks
- 0 -	FILL (native): asphalt, dry	T:			*****								
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						RUN-2	g	24					
- 6 -	FILL (non-native): loose yellow brown fine to medium Sand, dry] °				₽.							
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<u> </u>						1							
- 16 -	FILL (non-native): loose yellow brown fine to medium Sand, moist	-				1	+	-					÷
	medium Sand, moist					3			1				
- 17 -		0											
- - 18 -		_			****	RUN-5	6	18			i		
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GeoEnvironmental, Inc.

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ocation Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Sample Data Elev (ft) Depth Remarks Sample Description (ft) 20 21 0 22 Stiff brown fine to medium Silty CLAY, some brown fine Sand, saturated 0 23 0 0 Medium dense yellow brown fine to medium SAND, saturated 25 0 8 26 0 27 0 28 Medium dense brown fine to medium SAND, 0 some brown Clay, saturated RUN-8 29 5418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:02:04 PM ... 0 30 Medium dense brown fine to medium SAND, little 0 Gravel, saturated RUN-9 31 0 32 0 **RUN-10** AUGER 24 33 Q 0 RUN-11 0 36 SB-82A-36 was collected at 36' bg at 1040 at 10/29/09 37 38 39

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SB-83A Boring Log

GeoEnvironmental, Inc. **Sheet** of 2 1 Location Project 25 Sherwood Lane Unimatic Manufacturing Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company **Date Started Drilling Equipment** Drilling Method Date Finished Geoprobe/HSA Direct Push/HSA 10/23/09 10/28/09 Final Boring Depth Depth to Rock Sampler 4' acetate liner&1.5" split spoon 36 ft 36 ft Groundwater Depth (ft) GZA Inspector Sampler Hammer Drop (in) Initial 🔽 Completion \(\bar{\Pi} \) 24 Hours V Checked By **Drilling Foreman** Ben Alter Catherine Fang **Brett Pierson** Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 0 FILL (native): loose dark brown fine to medium Sand, some brown Gravel, dry 1 0 RUN-1 24 2 0 3 0 0 0 RUN-2 0 0 0 0 RUN-3 GР 4 10 0 Loose brown fine to medium SAND, dry 11 0 12 0 13 0 RUN4 P) 84 14 0 0 0 0 RUN-5 B/ \$ 18 0 0

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SB-83A

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GeoEnvironmental, Inc.

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roject	Unimatic Manufacturing		•		cation			25 9	Sherv	vood	Lane	
roject N	12.00/5418.20		•		ent			Uni	matic	Man	ufact	uring, Inc.
rilling C	ompany Hawk Drilling Company			Ele	evation and	d Da	tum	Not	Avai	lable		
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist aldu Bl/6in Q	4134	alue s/foot) 30 40	Remarks
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28 🚽	Medium dense brown fine to medium SAND,	ا ہ ا			::::: ::	- :		\vdash				
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32 – -	Medium dense brown fine to medium SAND, some brown Clay, saturated	0										
33 -	come brown day, saturated					RUN-10	AUGER	12				
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Ė	Medium dense brown fine to medium SAND, some brown Gravel, saturated	0				_	~					
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SB-84B Boring Log

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of Sheet Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Not Available Hawk Drilling Company Date Started Date Finished Drilling Equipment Drilling Method Geoprobe/HSA Direct Push/HSA 10/23/09 10/28/09 Sampler Final Boring Depth Depth to Rock 38 ft 4' acetate liner 38 ft Groundwater Weight (lbs) Drop (in) Sampler Hammer Initial 🔽 Completion ____ 24 Hours V Depth (ft)
GZA Inspector Drilling Foreman Checked By Ben Alter Catherine Fang **Brett Pierson** Sample Data PID Reading (ppm) Depth (ft) N-Value (Blows/foot) Elev Remarks Sample Description (ft) 10 20 30 40 0 Loose brown fine to medium SAND, cobbles, dry 0 RUN-1 38 2 0 3 0 0 RUN-2 0 Ó 8 0 Dense brown SILT, some brown Sand, dry 0 RUN-3 8 10 0 11 0 12 Ó 13 0 RUN4 9 8 0 15 0 16 0 17 0 RUN-5 8 18 0 19 0

UN75400 TO 75599075418.2, UNIMATIC ISRA CLOSUREIGINTN 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:02:19 PM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GOT

GeoEnvironmental, Inc.

SB-84B

Sheet

of

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2 Project **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum **Hawk Drilling Company** Not Available Sample Data N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 20 21 0 RUN-6 22 Medium dense red brown fine to medium SAND, 0 some cobbles, wet 23 0 0 0 27 o 28 Medium dense brown fine to medium SAND, 0 some brown Gravel, saturated 29 418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:02:21 PM ... 0 30 0 31 0 32 Medium dense brown fine to medium SAND, saturated 24 33 0 0 **RUN-11** 35 36 0 **RUN-12** 37 0 38 0 SB-84B-38 was collected at 38' bg at 1530 on 10/28/09 39

Srt: Log - NJ-GZA_GEOTECHNICAL ... Template

GeoEnvironmental, Inc.

SB-85A Boring Log

GeoEnvironmental, Inc. Sheet of 1 . 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Drilling Method Date Started Drilling Equipment Date Finished Direct Push/HSA 10/26/09 10/30/09 Geoprobe/HSA Final Boring Depth Depth to Rock Sampler 36 ft 36 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion _ 24 Hours V Checked By **Drilling Foreman** Catherine Fang Ben Alter **Brett & Todd** Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 0 Loose brown fine to medium SAND, dry 0 RUN-1 0 3 0 0 0 Ò 0 0 9 0 RUN-3 8 ြာ 10 0 Dense brown SILT, dry 0 12 0 13 0 RUN-4 9 84 0 15 0 16 0 17 0 RUN-5 8 24 18 0 0

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SB-85A Boring Log

GZA GeoEnvironmental, Inc.

		Unimatic Manufacturing			•	cation			25 \$	Sherv	vood Lane		
oject No.		12.0075418.20			Cli	ent			Unii	natic	Manufacti	uring, In	C
illing Con	npany	Hawk Drilling Company			Ele	evation an	d Da	hum			lable		
		Trawn Drining Company	2	•	T:	ر لج			Sai	nple D	ata		
epth (ft)	•	Sample Description	PID Read	(mdd)	Elev. (ft)	MATERIAL SYMBOL	Number	Туре	Recov.	Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40		Remarks
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				٠		1						bg at	5A-36 was collected a 1530 on 10/30/09 0000, duplicate of
37										ì		SB-8	0000, duplicate of 5A-36, was collected a
3		·										36' b	g at 1535 on 10/30/09
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rt: Log - NJ-GZA GEOTECHNICAL ...Template

GeoEnvironmental, Inc.

SB-86B Boring Log

> of **Sheet** 1

2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Hawk Drilling Company Not Available Drilling Equipment Drilling Method **Date Started** Date Finished Geoprobe/HSA Direct Push/HSA 10/26/09 10/30/09 Final Boring Depth Depth to Rock Sampler 36 ft 36 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion _____ 24 Hours 🔽 Checked By Drilling Foreman Ben Alter **Brett Pierson** Catherine Fang Sample Data PID Reading (ppm) Elev (ft) Depth Remarks Sample Description (ft) 10 20 30 40 0 Loose brown fine to medium SAND, some brown coarse Gravel, little brown Silt, dry 1 0 5400 TO 75599(75418.2, UNIMATIC ISRA CLOSUREIGINTY12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:02:37 PM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template WPLATE.GDT TTT | 4-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 PTT | 1-3 RUN-1 2 0 3 0 0 0 RUN-2 42 0 0 8 0 9 0. RUN-3 48 10 0 Dense brown SILT, some brown Sand, little Cobble, dry 11 0 12 0 13 0 RUN4 ᆼ 8 0 15 0 16 0 17 0 RUN-5 ြင 18 0 0

SB-86B

Sheet

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Location Project Unimatic Manufacturing 25 Sherwood Lane Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Elevation and Datum **Drilling Company Hawk Drilling Company** Not Available PiD Reading (ppm) Sample Data Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 20 ō Dense brown SILT, some brown Sand, little Cobble, wet 21 0 RUN-6 22 0 23 Q 24 0 25 0 RUN-7 9 26 0 27 0 28 0 Medium dense brown fine to medium SAND, saturated 29 0 30 0 RUN-9 31 0 32 Ó **RUN-10** AUGER 33 0 34 0 **RUN-11** AUGER ∞ 35 0 36 SB-86B-36 was collected at 36' 0 bg at 1130 on 10/30/09 37 38 39

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118.2, UNIMATIC ISRA CLOSUREKGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 12:02:38 PM ...

GZA GeoEnvironmental, Inc.

SB-87A Boring Log

Sheet

of

2

1 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Drilling Method **Drilling Equipment Date Started** Date Finished 10/29/09 Geoprobe/HSA Direct Push/HSA 10/26/09 Depth to Rock Final Boring Depth Sampler 36 ft 36 ft 4' acetate liner Sampler Hammer Groundwater Weight (lbs) Drop (in) Initial 🔽 Completion _____ 24 Hours V Depth (ft) GZA Inspector Checked By Drilling Foreman Ben Alter Catherine Fang **Brett Pierson** Sample Data PID Reading (ppm) Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description (ft) 10 20 30 40 0 Loose brown fine to medium SAND, some cobble, 0 RUN-1 2 0 3 0 0 ြာ Ó 0 0 9 0 RUN-3 10 0 Dense brown SILT, dry 11 0 12 0 13 0 36 0 15 0 16 Loose brown fine to medium SAND, some 0 cobbles, dry 17 0 RUN-5 P) 36 18 0 19 0

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GeoEnvironmental, Inc.

SB-89A Boring Log

Sheet

of

2 1 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Drilling Method Date Started Date Finished **Drilling Equipment** 10/29/09 10/26/09 Geoprobe/HSA **Direct Push&HSA** Depth to Rock Final Boring Depth Sampler 38 ft 38 ft 4' acetate liner Groundwater Weight (lbs) Drop (in) Sampler Hammer Initial $\overline{oldsymbol{
abla}}$ Completion T 24 Hours V Depth (ft) GZA Inspector Checked By **Drilling Foreman** Ben Alter Catherine Fang **Brett & Todd** PID Reading (ppm) Sample Data Depth (ft) Remarks Sample Description (Blows/foot) (ft) 10 20 30 40 0 Loose yellow brown medium to coarse SAND, cobbles, dry 0 RUN-1 0 0 0 0 RUN-2 0 Loose brown fine to medium SAND, little coarse Gravel, dry 2418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGSY12.0075418.20_BORING LOGS.GPJ ... 6/ HINICAL ...Template TEMPLATE.GDT Triff trif 0 0 0 8 0 0 12 0 13 0 B 8 0 15 0 16 Loose brown fine to medium SAND, little coarse 0 Gravel, moist 17 0 38 0 0

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SB-89A Boring Log

GZA GeoEnvironmental, Inc.

Project	Unimatic Manufacturing		j	Location			25 \$	Sherv	vood Lane				_
Project No.	12.0075418.20			Client					Manufacti	urina. Inc			
Drilling Compan	Hawk Drilling Company			Elevation ar	nd Da	tum		Avai				.	_
	Hawk Drilling Company	g g		<u>.</u>	Τ			mple D					
Depth (ft)	Sample Description	PID Reading (ppm)	E)(1	(t) .va	Number	Туре	(in)	Penetr. resist Bt/6in	N-Value (Blows/foot) 10 20 30 40		Ren	narks	
20 Lo	ose red brown fine to medium SAND, some bble, wet	0	_		\			ш.	10 20 30 40				_
21 -		0											
22					RUN-6	GP	48						
23 -		0											
E]													
24 - Me	dium dense dark brown medium to coarse ND, some Gravel, saturated	-] °			_	œ			-pr pph/ (
25		0			RUN-7	AUGER	24						
26		0			-	H	<u> </u>						
27 -		o l			UN-8	AUGER	24						
28					<u>"</u>	₹							
E B Me	dium dense dark brown fine to medium SAND, e brown Clay, saturated	0			<u>ဝှ</u>	띘	_						
- 29 - -		0			RUN-9	AUGER	24						
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31		0			RUN-10	AUGER	24]					
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33					Ę	GER	24						
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35 -		0			RUN-12	AUGER	24					•	
36		0			-		-		4				
28 - Me litt		0			RUN-13	AUGER	24						
38		_ ,			-	\delta	<u> </u>			SB-89.	A-38 w	as collect	ec
1										bg at 1	430 or	as collect 1 10/29/09	}
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SB-92A Boring Log

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Drilling Co	nawk Drilling Compa	Him on A A make much			- 1	Elevation and Date Started		P		/ailabl	e _	Date	Finished	<u> </u>		_
Sampler.	Geoprobe	Direct	Push			Pate Started			10/19				n to Rock	10/19/0	09	
	4' acetate liner Hammer Weigh	ut (lbs)	Drop (i	n)	- 1	Groundwate	•			6 ft			,		lours <u>V</u>	
Orilling Fo	-				- [[Depth (ft) GZA Inspect			Initial 5				tion <u> </u>			_
1	Brett Pierson	•	I g	. 1	$+\Gamma$	- 1		<u></u> C		ne Fa e Data	ng	1		Ben Alte	<u>er</u>	_
Depth (ft)	Sample Descr		PID Readir	(mdd)	Ele (ft	MATERIAL SYMBOL	Number	Туре	Recov.		l-Value ows/for 20 30			Remar	ks	
- 0 -	FILL: loose grey fine to mediu dry	m SAND, asphalt,				*****										
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"]	loose brown fine to medium S Silt, dry	AND, some brown	1	9	'											
5 -	Ont, dry								İ					•		
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6 🖠	Loose brown SILT, some brov	vn coarse Gravel.	— ∵,	, .	ŀ		RUN-2	8	8							
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12	Loose brown SILT, some brov wet	vn coarse Gravel,	7)												
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GZA GeoEnvironmental, Inc.

Boring Log SB-94A

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Project N				c	lient										_
	12.0075416.20			E	evation an	d Da	4		•		uiaci	uring, in	<u>,. </u>		_
	Drilling Method	- doub			ate Started	1					Da	ate Finished	10	1/1//00	<u>.</u>
Sampler	Geoprobe Direct P	usn		F	nal Boring	Dept	th	10/		-	D	epth to Rock		711100	-
Sampler I		Drop (in	1)	G	roundwate	er .		Initi			Com	poletion T		24 Hours V	-
			<u> </u>	D	epth (ft) ZA Inspec	tor					1-10				_
Diming i	Brett Pierson	T as	_	٠,٠		1							Be	n Alter	_
Depth (ft)	Sample Description	PID Readin	(Hadd)	Elev (ft)	MATERIAL	Number	P. P.	_			rs/foot)		Re	emarks	
- 0 - - - - -	FILL: loose brown Silt, some grey fine to medium Sand, some grey Gravel, dry														
- 1 -		0		İ		1									
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] ⊋	10	∤ "							
3 -	FILL: loose brown Silt, some grey fine to medium Sand, wood and other filled material, dry														
- 4 -	Loose brown SILT some grey fine to medium	┨。			****	-	-	-	 						
:]	Sand, little gravel, dry		1			1						1			
5 -		· o				1						ľ			
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- 6 -	Loose brown SILT, little wood, dry	0				S.	5	۳							
7 -		0			<u> </u>	1								•	
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- 8 -	Loose brown SILT, some grey fine to medium	1 0	· [1.		十				1					
[]	Sand, dry			1 .	<u> </u>			1							
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SB-94A Boring Log

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Project N	Unimatic Manufacturing			Location Client	•			Sherwood Lan		
	12.0075418.20			Elevation and	d Dat	ıım		matic Manufac	tur	ing, Inc.
······································	Hawk Drilling Company	i i	┦.	. , , , , , , , , , , , , , , , , , , ,			Not	Available mple Data	· -	
Depth (ft)	Sample Description	PID Reading (ppm)	Ele (ft	MATERIAL SYMBOL	Number	Type		N-Value (Blows/foot		Remarks
- 20 - 	Loose brown SILT, little grey fine to medium Sand, wet	0								
21 -		0								
22		0			RUN-6	g	48			:
23		0								•
24	Loose brown SILT, little grey fine to medium									
25 -	Sand, saturated	0								
26		0			RUN-7	g S	36			
27 -		0			2					• •
28	Loose brown fine SAND, some fine to medium	0		2.2.2.2.2						
29 -	Gravel, saturated									OD 044 00
}		0			RUN-8	g B	12			SB-94A-29 was collected from 29' bg at 1100
30 -		0			S.	O	-			
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418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS1/2.0075418.20_BORING LOGS.GPJ ... 6/15.20 PM ... Report. Log-

SB-95 Boring Log

Sheet of 1 1 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Hawk Drilling Company Not Available Drilling Method **Drilling Equipment** Date Started Date Finished 10/14/09 10/14/09 Geoprobe **Direct Push** Final Boring Depth Depth to Rock Sampler 8 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial ∇ Completion T 24 Hours V Checked By **Drilling Foreman** Catherine Fang Ben Alter **Brett Pierson** Sample Data PID Reading (ppm) Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description Type (ft) Œ 10 20 30 40 0 Loose brown medium SAND, some Gravel, little brick, dry 0 င္ပ 36 2 Loose red brown fine to medium SAND, some 0 gravels, bricks, dry 3 SB-95-3 was collected at 3' bg 0 J.75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE'SOIL BORINGAWELL LOGS/12,0075418.20_BORING LOGS.GPJ ... 6/19/2010 5:45:04 PM ... Report: Log-NL-GZA GEOTECHNICAL ...Template TEMPLATE.GDT at 1445 Loose dark brown fine to medium SAND, some 0 gravels, dry 5 0 RUN-2 옔 0 Loose brown SILT, some fine Sand, dry 0 SB-95-8C was collected at 8' 0 bg at 1450 10 11 12 15 16 17 18 19

GeoEnvironmental, Inc.

SB-96/96A

GZA GeoEnvironmental, Inc.

Project	Unimatic Manuf	facturing	-		L	ocation		2	5 Sherv	vood Lan	e			
Project No	12.0075418.20				С	lient					cturing, In	C.		
Drilling Co		ompany			E	levation and	d Dat		ot Avai					
Drilling Eq	Quipment Geoprobe	Delling Mathead	irect Pusi	h	D	ate Started			0/14/09		Date Finished	11/1	3/09	
Sampler	4' acetate liner				. F	inal Boring	Dept		25 ft		Depth to Roc		_	
Sampler F	-tammer	Weight (lbs)	Dro	o (in)	− ဋ	roundwater			nitial 🔽		mpletion V	Ta	24 Hours \(\frac{1}{3}	7
Drilling Fo	preman Droff Diagram		• .		G	epth (ft) ZA Inspect	or		- -	<u>'- </u>	Checked By	Ben A		
	Brett Pierson			8	┰╵╴	T			therine Sample D		T	Dell /	AILEI	
Depth (ft)	Sample D	Description		PID Reading (ppm)	Elev (ft)	MATERIAL	Number		(in) Penetr. resist BI/6in			Rem	narks	
- V <u>-</u>	FILL: asphalt, root, grave medium sand, dry	els, some brown fir	ne to		1.									
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- 4 -				0										
= =														
- 5 🕂	Loose brown medium to	coarse SAND, sor	ne	0				N						
: [Gravels, dry		•					N				•		
- 6 -				0				N					•	
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Boring Log SB-96/96A

GZA GeoEnvironmental, Inc.

Project	Unimatic Manufacturing					cation		. :	25 8	Sherv	vood Lane				•
Project No	12.0075418.20				- 1	ent			Uni	matic	Manufactu	uring, Inc.			
Drilling Co	mpany Hawk Drilling Company	,			Ele	evation ar	d Da	tum	Not	Avai	lable				
Depth (ft)	Sample Description		PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist aldu 81/6in O			Rem	arks	
- 20 -			0		<u> </u>		_						i		
21 -	•		0			· · · ·									
22	Dense brown silty CLAY, some brown medium	_	0				5-5	Ь	0						
23	Sand, wet		0				RUN-5	S	90						
24			0									SB-96A 24' bg a	-24C w	as colle	cted a
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Sheet of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Hawk Drilling Company Not Available Drilling Method Drilling Equipment Date Started Date Finished Direct Push 10/14/09 1/4/10 Geoprobe Final Boring Depth Depth to Rock Sampler 35 ft 35 ft 4' acetate liner Sampler Hammer Groundwater Weight (lbs) Initial $\underline{\underline{\nabla}}$ Completion T 24 Hours V Depth (ft) GZA Inspector Checked By Drilling Foreman Brett, Steve & Bryan Catherine Fang Ben Alter Sample Data Depth Elev (ft) N-Value (Blows/foot) Remarks Sample Description (ft) 10 20 30 40 0 FILL: asphalt, Gravel, dry 0 RUN-1 2 0 3 0 Loose brown medium to coarse SAND, little 0 Gravel, dry 0 RUN-2 읪 0 UNIMATIC ISRA CLOSURE'SOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/ Template TEMPLATE.GDT 0 0 0 RUN-3 ∞ 0 0 12 Dense brown Silt, some Gravel, wet 0 13 0 RUN4 0 15 0 16 0 SB-97A-16 was collected at 16' bg at 1050 on 11/18/09 0 RUN-5 8 8 0

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0 5:58:13 PM ... Report: Log -

Boring Log SB-97/97A

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Sheet

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of

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Hawk Drilling Company Not Available Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Remarks Depth Sample Description (ft) 10 20 30 40 20 Hard brown CLAY, some fine to medium brown 0 Sand, wet 21 0 RUN-6 22 0 23 0 24 SB-97A-24 was collected at 24' 0 Not logged bg at 1055 on 11/18/09 25 0 RUN-7 JY75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE'SOIL BORING&WELL LOGS\12,0075418.20_BORING LOGS.GPJ ... 6/19/2010 5:45:18 PM ... Report: Log-NL-GZA_GEOTECHNICAL ... femplate TEMPLATE.GDT 26 0 27 Medium dense brown medium to coarse SAND. 0 some brown coarse Gravel, saturated 28 0 RUN-8 g B 36 SB-97A-29 was collected at 2 29 0 bg at 1220 on 01/04/10 30 0 31 0 Hard brown CLAY, wet 32 0 RUN-9 읪 8 33 0 34 0 SB-97A-35C was collected at 35' bg at 1225 on 01/04/10 35 0 36 37 38 39 40

GeoEnvironmental, Inc.

Boring Log SB-98/98A

Sheet

of 2

Project No	o.	Unimatic Manufacturing			·	Clie	ent					ood La			
		12.0075418.20					vation and	d Dat				· · · · · ·	actu	ring, Inc.	•
Drilling Co		Hawk Drilling Company				. i				Not	Avail	able			
Drilling Eq	quipment	Geoprobe Drilling Method Di	rect Pus	sh			te Started			11/1	8/09				/3/09
Sampler		4' acetate liner				Fin	al Boring	Dept	h		33 ft		Dep	th to Rock	33 ft
Sampler H	lammer	Weight (lbs)	Dro	p (in)		Gro	oundwater pth (ft)	r .		Initia			omni	etion 🔻 _	24 Hours 🔽
Drilling Fo	reman	-1	-			De GZ	<u>pth (ft)</u> 'A Inspect	OF		$\overline{}$				akad By	
T		Brett & Todd		 Tm	т	1	,				erine nple Da	Fang	Ц	Ben	Alter
Depth (ft)		Sample Description		PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist	N-Value (Blows/fo	ot)	Ren	narks
- • 🕇	Loose	e brown medium GRAVEL, some brow	n Silt,				\vec{G}			1					
:]	dry		•	İ	1 1		300		N						
- 1 -				0					N						
=				1			30,0	<u>-</u>							
- 2 -				0			000	RUN-1	ဗြု	24					
: ‡					.			Œ							•
- 3 -				0										SB-98-3 was	collected at 3
:]				Ĭ.			000		N					at 1250 on 10	/14/09
- 4 -			-				607	\Box		 					
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5]				_			300							•	
. * ±				0							. [
:								RUN-2		ای	.				
- 6]				0			200		GP	36		.			
=		<i>¥</i>			1 1		PO 01								
- 7 -				0			500				, [
.					4		00				-				
8 🕂	Loose	e brown fine to medium SAND, dry	- :-	٠,			\sim	\vdash		\vdash	\dashv			SB-98A-8 was	collected at
: ‡] [bg at 1335 on	11/18/09
9 -				0											
: ‡			-					က		•				•	
10 -			,					RUN-3	ලි	36					
:]				•				€							
- 11 -											.			•	
. ‡				"					N		٠. ا				
- 12 -			. '											•	
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. 42 1				1					N						
- 13 -			*	0					N		İ				: •
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- 14 -				0				RUN-4	9	84	ļ				
:]			,												
- 15 -				0				1							•
: :	•	•		-					M						
16	Hard	brown CLAY, some fine to medium Sa	nd	┨。											
:]	dry	Some the to medicin Sa	· ····	`							.				
17	•			_		.			n		ŀ				
: ' :				0]				N		·				
1				.			 -	일	⊾ฟ	6	ı			-	
- 18 -		•		0		Ì		RUN-5	۵۱	8	ľ				
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Boring Log SB-98/98A

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GZA GeoEnvironmental, Inc.

Sheet

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Project	Unimatic Manufacturing		-	ation			25 9	Sherw	ood Lane	
Project No	12.0075418.20			ent	-		Unii	matic	Manufactu	ıring, Inc.
Drilling Co	Hawk Drilling Company		 Ele	vation and	i Da	tum		Avail		
Depth (ft)	Sample Description	PID Reading (ppm)	Elev. (ft)	MATERIAL	Number	Туре		Penetr. resist aldu Bl/6in Q	N-Value (Blows/foot) 10 20 30 40	Remarks
21 -	Loose brown fine to medium SAND, some Clay, wet	0			φ	GP GP	48			
23		0			Œ					
24	Loose deep brown medium SAND, some brown find Gravel, saturated	0								SB-98-24 was collected at bg at 1255 on 10/14/09
26 - - 27 -	Loose brown fine to medium SAND, saturated	o			RUN-7	GP	12			
28		0								
29 -		0			RUN-8	GP	12			SB-98-29 was collected at bg at 1300 on 10/14/09
26 27 28 29 30 31 33 33 34 35 36 37 38 39 39 30 30 30 30 30 30 30 30 30 30 30 30 30										
33	Dense brown SILT, some Gravel, saturated				RUN-S	8	12	ļ 		SB-98A-33 was collected
34 -										bg at 1610 on 12/03/09
35										
36 -										
- 37 - - 38 -				,						
- - 39 -										~
40						,				
41 -					-					

Sheet

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1

Project	11-1				Location		~-	OI		
Project N	Unimatic Manufa	icturing			Client	•			ood La	
Drilling C	12.00/5418.20				Elevation an	nd Da				icturing, Inc.
I -	Mawk Drilling Co	Co. altres Advades d			Date Started		No	t Avail	abie	Date Finished
Sampler	Geoprobe	Direct F	-usn		Final Boring		10 h	/14/09		Depth to Rock
	4 acetate iiner	Veight (lbs)	Drop (in)		Groundwate			16 ft		
Drilling F	oreman			-	Depth (ft) GZA Inspec			tial <u>V</u>		ompletion 24 Hours Checked By
	Brett & Andrew		<u> </u>	_	L, ·	T	Sar	ndeep & ample Da	k Cathe	Checked By nine Ben Alter
Depth (ft)	Sample Do	escription	PID Reading (ppm)		MATERIAL SYMBOL	Number		Penetr. resist add	N-Value (Blows/fox	ot) Remarks
F 0 -	Loose brown fine to media	ım SAND, some Gravel		\top		1	1	1	10 20 30	1
E . 3	some Cobbles, dry	,		1 .						
F ' 3	•	· .	. 0			1	N	.		
£ 2 =						글	₽ 2			0000
E -			°			RUN-	ة إ ق			SB-99-2 was collected at 2.0' bg at 0930 on 10/14/09
F 3 =		ı]	N	1		SPLP-4C was collected from
<u> </u>	•		0				N			2.0' bg at 0950 on 06/04/10
F 4 =	Toosa brown first and		_ ,				<u> </u>	$\downarrow \downarrow \downarrow$		SPLP-5C was collected from
E 3	Loose brown fine to medic silty Clay, little brown coar	se Gravel, dry		-		1		[.]		4.0' bg at 0955 on 06/04/10
F 5 =						1				,
‡ 📑						2				
F 6 🚽			0			RUN-2	₽[] %	1 1		11
ŧ 1						اعا		.		
F 7 🗄			0	.						
<u> </u>		-								
F 8 ∃			0			-	-	†:		SB-99A-8 was collected at 8'
F = 3							N			bg at 0930 on 11/11/09 SB-99B-8C was collected from
F 9 =			0				M] [8' bg at 1000 on 06/04/10
;				, :		ائة	۰۱.			
F 10 -			0			RUN-3	<u>අ</u>			
<u> </u>	•									
ţ'']			0							
12 -	, , , , , , , , , , , , , , , , , , ,									
<u> </u>			0							
13	•									
F = 1			- "							
- 14						RUN-4	g 8			
‡ 📑						쮼				
15							M			
‡ ‡							M	.		
- 16 -		1.	\dashv \mid			+	<u> </u>	\vdash		SB-99A-16C was collected at
<u> </u>										16' bg at 0940 on 11/11/09
F 17 -		$v^{-1}1_{-1}$								
E 3						• }	'			
- 18 -] }							
[_]	•									
19 -										
= _ =										
— '// I — L				. 1			1 .		, i. i i	

8418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 6/19.E010 5:45:30 PM ... Report. Log -NICAL ...Template TEMPLATE.GDT



Sheet 1 of 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company **Drilling Method** Date Started Date Finished **Drilling Equipment** 10/14/09 6/4/10 **Direct Push** Power-probe Depth to Rock Final Boring Depth Sampler 32 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial ∇ Completion \(\bar{\pi}\) 24 Hours V 16 Depth (ft) GZA Inspector Catherine & Sandeep Drilling Foreman Ben Alter Steve, Bryan, Brett & Andrew Sample Data PID Reading (ppm) Elev (ft) N-Value Depth Remarks Sample Description Type (Blows/foot) (ft) 10 20 30 40 0 Loose brown fine to medium SAND, some Gravel, some Cobbles, dry SPLP-1 was collected at 1' bg 0 at 1015 on 06/04/10 JA75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/GINTA2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:49:07 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE: GDT RUN-1 \mathbf{Z} SB-100-2 was collected at 0 1.5-2.0' bg at 0930 on 10/14/09 SPLP-2 was collected at 2' bg at 1030 on 06/04/10 3 0 SPLP-3 was collected at 4' bg Loose brown fine to medium SAND, some brown 0 at 1020 on 06/04/10 Silt, little brown coarse Gravel, dry 0 RUN-2 8 0 0 SB-100A-8 was collected at 8' 0 bg at 0830 on 11/11/09 SB-100C-8C was collected at 8' bg at 1025 on 06/04/10 0 RUN-3 8 ઢા 0 11 0 12 0 13 0 RUN4 36 Б 14 0 15 0 SB-100A-16C was collected at 16 0 Hard brown CLAY, wet 16' bg at 0840 on 11/11/09 17 0 RUN-5 ဗ္ 18 0



Sheet

2 of Location Project **Unimatic Manufacturing** 25 Sherwood Lane Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available **Hawk Drilling Company** PID Reading (ppm) Sample Data Elev (ft) N-Value (Blows/foot) Depth (ft) Remarks Sample Description 10 20 30 40 20 Hard brown CLAY, saturated 0 21 0 RUN-6 22 0 23 0 24 SB-100B-24 was collected at 24' bg at 1550 on 12/28/09 0 Medium dense brown fine to medium SAND, wet 25 0 RUN-7 24 26 0 27 0 28 0 29 0 36 30 0 31 0 32 SB-100B-32C was collected at 0 32' bg at 1555 on 12/28/09 33 34 35 36 37 38 39

or: Log - NJ-GZA_GEOTECHNICAL ...Template

418.2, UNIMATIC ISRA CLOSUREIGINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:49:09 AM ...

of Sheet 1 1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Date Started Drilling Method Date Finished **Drilling Equipment Direct Push** 10/14/09 11/11/09 Geoprobe Final Boring Depth Depth to Rock Sampler 16 ft 4' acetate liner Sampler Hammer Groundwater Weight (lbs) Drop (in) Initial 🔽 Completion ____ 24 Hours V Depth (ft)
GZA Inspector Catherine & Sandeep Drilling Foreman Ben Alter **Brett Pierson** Sample Data PID Readin (ppm) Depth (ft) Elev N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 0 Brown f-m SAND, some Gravel, some Cobbles, 0 dry, loosely packed 0 IN75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:49:28 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template | FEMPLATE.GDT RUN-1 ဌာ 2 SB-101-2 was collected at 0 1.5-2.0' bg at 0930 on 10/14/09 3 0 0 Loose brown fine to medium SAND, some brown silty Clay, little gravels, dry 5 0 RUN-2 မ 6 0 0 SB-101A-8 was collected at 8' 0 bg at 1000 on 11/11/09 0 RUN-3 10 0 11 Ó 12 0 13 0 RUN4 Medium dense red brown fine to medium SAND, 0 some brown Clay, little gravel, dry 15 0 SB-101A-16C was collected at 16 0 16' bg at 1010 on 11/11/09 17 18

Sheet

of

1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Hawk Drilling Company
| Drilling Method Elevation and Datum Not Available Drilling Equipment Date Started Date Finished Geoprobe **Direct Push** 10/14/09 10/14/09 Depth to Rock Sampler Final Boring Depth 4' acetate liner 4 ft Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion **Y** 24 Hours V Depth (ft)
GZA Inspector Checked By **Drilling Foreman Brett Pierson** Sandeep Singh Ben Alter Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Sample Description Remarks (ft) 10 20 30 40 0 Brown f-m SAND, trace Silt, some Gravel, some Cobbles, dry, loosely packed 0 RUN-1 9 ဓ SB-102-2 was collected at 0 1.5-2.0' bg at 0930 0 0 10 12 13

h: Log - NJ-GZA_GEOTECHNICAL ...Template 18.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:49:34 AM ...

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SB-103

Boring Log GeoEnvironmental, Inc. Sheet

of 1 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Date Started Date Finished Drilling Equipment 10/14/09 Geoprobe **Direct Push** 10/14/09 Depth to Rock Final Boring Depth Sampler 12 ft 4' acetate liner Groundwater Sampler Hammer Drop (in) Weight (lbs) Initial 🔽 Completion _____ 24 Hours V Depth (ft) GZA Inspector Checked By **Drilling Foreman** Sandeep Singh Ben Alter **Brett Pierson** Sample Data Elev (ft) Depth (ft) Remarks Sample Description 10 20 30 40 0 Red brown fine to medium SAND, some gravels, fill materials, dry 0 RUN-1 !\Y\$400 TO 75599\75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:49:41 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 36 0 0 0 Fill material, some gravels, silty sand, dry 5 0 RUN-2 မြွ 0 0 Fill material, sand, silt, dry 0 0 Fill material, sand, silt, silty sand, dry RUN-3 SB-103-10 was collected from 10 0 10' bg at 0915 0 0 13 16 17 18 19

Sheet of 1

Project		Unimatic Manu	ıfacturing			1		ation			25 8	Sherw	ood L	ane					
Project N		12.0075418.20				1	Clie								ıring, Inc				
Drilling C	ompany	Hawk Drilling C						ation and				Avail							
Drilling E	quipment	Geoprobe	Drilling Method	Direct Pus	sh		Date	e Started	•			13/09		Dat	e Finished	10/	13/09		
Sampler		4' acetate liner				1		al Boring		h		28 ft		Dep	oth to Rock		· · · · · · · · · · · · · · · · · · ·	- 	
Sampler	Hammer		Weight (lbs)	Dro	op (in)		Gro	undwater oth (ft)			Initia	al 🔽			letion <u></u>		24 Hour	s 💆	
Drilling F	oreman	Brett Pierson	- Lyca - Control		•		GZA	A Inspect	or		Sano	leep S	Singh	Che	ecked By	Ben	Alter		
				·. · · · · · · · · · · · · · · · · · ·	£ _		Т	₹ ∺			Saı	nple Da	ata						
Depth (ft)	•	Sample	Description	•	PID Reading (ppm)		ev. ft)	MATERIAL	Number	Туре	ğ (<u>-</u>	Penetr. resist Bl/6in	N-Va (Blows/	ue foot)		Re	marks		
- o −	Loose	brown fine to me	dium SAND som	e brown	1	-	-	. ≥" 	₹	_	2	5 5 W	10 20 3	0 40					
	Grave	el (dry)	didili SAND, SON	e DiOWii								i							
1 -	1		•		0														
					1 1				<u>-</u>										
2 -					0				RUN-	ဗြု	42							*	
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- 3 -	1			•	0														
F . =							:												
- 4 -					0														
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- 6 -	1					·	:		RUN-2	9	9								
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12 -		•																	
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13 -												,							
E 3		•		. •					4										
14 -	Some	brown fine to med	dium Sand (little r	noist).	- 0		:		RUN-4	<u>8</u> []	84		-			•			
=	tightly	packed, trace Cla	ay						œ			. [,				
15 -	1				0	, [:												,
		•				٠,	:												
- 16 -				•	.0	:				N	\dashv							•	,
F _ =				• •					٠	N									
- 17 -	Mediu	m dense red brow	vn medium SAND	, some	0					N		:							
<u> </u>	prown	Silt (wet)		•					RUN-5	۸ے	38	.							
- 18 -			•		0	•			P.	9	ต								
19 -									j	N	.	1							
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418.2, UNIMATIC ISRA CLOSUREIGINT1/2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:49:51 AM ...

SB-104 Boring Log

Sheet

of

2

2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc 12.0075418.20 Drilling Company Elevation and Datum Hawk Drilling Company Not Available Sample Data PiD Reading (ppm) Elev (ft) N-Value (Blows/foot) Remarks Depth Number Sample Description Type (ft) 20 0 21 'n RUN-6 GP GP 8 22 0 23 0 J.YS400 TO 75599(75418.2, UNIMATIC ISRA CLOSUREIGINTYI 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:49:54 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 24 0 25 0 RUN-6 g g 84 26 SB-104-26 was collected at 26' bg at 0950 0 27 0 28 0 29 30 31 32 33 34 35 36 37 38 39

GZA GeoEnvironmental, Inc.

SB-105 Boring Log

1

Sheet

of

Project	-	Unimatic Manufacturing		Location		2	25 Sherw	ood Lan	е	
Project N	lo.	12.0075418.20		Client					cturing, Inc.	
Drilling C	ompany	Hawk Drilling Company		Elevation and	Date		Not Avail	able		
Drilling E	quipment	Geoprobe Drilling Method Direct Pus	h	Date Started			10/19/09	7	Date Finished	10/19/09
Sampler		4' acetate liner	Y	Final Boring	Depth	1	24 ft		Depth to Rock	-
Sampler	Hammer	Weight (lbs) _ Drog	p (in)	Groundwater			Initial 🔽		mpletion	_ 24 Hours <u> _</u> _
Drilling F	oreman	Brett Pierson		Depth (ft) GZA Inspect	or	_	atherine	- 17	Checked By	Ben Alter
	1	Block Floridon		4-			Sample Da	ata		
Depth (ft)		Sample Description	PID Reading (ppm)	(a) .val	Number	Type	Recov. (in) Penetr. resist Bl/6in	N-Value (Blows/foor 10 20 30 4		Remarks
	Loose Grave	brown fine to medium SAND, some brown								
1 -	Clave	· (ui)	0							·
2 -			0		RUN-1	5	42	-		
3 -			0							
4 -			0							
5			0		4-2					
- 6 - 			0		RUN-2	9	9			
8 -			0							
9 -								and the state of t		
10 -			0		RUN-3	g B	36			
11 -			0							
12 -			0							•
13 -			0		4					٠.
14 -	Loose Sand	brown SILT, some brown fine to medium (dry)	0		RUN-4	8	84	The state of the s		
15 -		Σ	0							
- 16 - - - 17 -		*							SB-105 bg at 13	-16 was collected at 16'
- 18 -			0		RUN-5	<u>1</u> 5	36			
19 -	Mediu brown	m dense red brown medium SAND, some Silt (wet)	0		₽		60			
			0			N				

ort: Log - NJ-GZA_GEOTECHNICAL ...Template

448.2, UNIMATIC 1SRA CLOSUREIGINT 12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:50:04 AM ...

SB-105 Boring Log

GeoEnvironmental, Inc. Sheet 2 of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **Hawk Drilling Company** Not Available Sample Data PID Reading (ppm) MATERIAL SYMBOL N-Value (Blows/foot) Elev (ft) Depth (ft) Remarks Sample Description 죳 20 0 21 0 RUN-6 8 22 0 23 0 24 SB-105-24C was collected at 24' bg at 1350 0 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

13/75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/GINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:50:06 AM ... Report. Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

GZA

Sheet

of 2

Project		Unimatic Manufacturing				Locat				25 5	Sherw	ood L	ane			
Project N	ło.	12.0075418.20				Client			Į					uring, Inc.		
Drilling C	Company	Hawk Drilling Company				l	ation and		um	Not	Avail	able				
Drilling E	quipment	Challing Adapted	ect Pus	h		Date	Started				14/09		- 1	te Finished	10/14/09	
Sampler		4' acetate liner				l l	Boring		1		30 ft		De	pth to Rock	-	
Sampler	Hammer	_ Weight (lbs)	Dro	p (in)	-	Grou	ndwater h (ft) Inspect	1		Initia	al <u>V</u>			oletion <u>T</u>	_ 24 Hours 🕎	
Drilling F	oreman	Brett Pierson				GZA	Inspect	or	C	ath	erine	& Sai	ndee	ecked By	Ben Alter	
				g (٦_		_ક્રેત		· · · ·	Sar	mple Da	ata				
Depth (ft)		Sample Description		PID Reading (ppm)	[lev. (ft)	MATERIAL SYMBOL	Number	Type	(ir) č	Penetr. resist Bl/6in	N-Va (Blows 10 20			Remarks	
	Asph	alt brown fine silty SAND, trace Gravel, d	· N	0							٠.					
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- 2 -				0	1			RUN-1	မ္ပြု	24						
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	LOOSE	brown fine SAND, dry			-											
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MATS.2, UNIMATIC ISRA CLOSURESOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/15/2010 11:26:29 AM ... Report: Log -CHNICAL ... Template TEMPLATE.GDT

Boring Log SB-106

Sheet 2 of

Project No	Unimatic Manufacturing	•	_	ı	ent					ood Lane				
	12.00/5418.20					d Da	t	Unii	matic	Manufacto	uring, Inc.			
Drilling Co	Hawk Drilling Company	T ==	· Γ	=	vation an	u Da	um	Not	Availa	able				
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40		Rema	arks	
- 20 - 		0	,											
- 21 - - 22 -		0				RUN-6	GP	48						
	Brown fine to medium SAND, wet at 25' bg	0				₽	O N	4						
23 -		0												
- 24 -	Ž	0 Z												
- 25		"				RUN-7	GP	48						
- 26 - - 27 -		0				2	9	4					-	
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Sheet of Location Project 25 Sherwood Lane Unimatic Manufacturing Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available Drilling Method Date Started Date Finished **Drilling Equipment Direct Push** Power-probe 10/15/09 1/26/10 Final Boring Depth Depth to Rock Sampler 16 ft 4' acetate liner Sampler Hammer Drop (in) Groundwater Weight (lbs) Initial 🔽 Completion T 24 Hours 🔻 Depth (ft)
GZA Inspector **Drilling Foreman** Checked By Catherine Fang Ben Alter Brett, Steve & Andrew Sample Data PID Reading (ppm) Depth (ft) N-Value (Blows/foot) Remarks Sample Description (ft) 10 20 30 40 0 FILL (native): loose dark brown fine to medium Sand, some brown coarse Gravel, dry 0 RUN-1 망 0 SB-108A-2 was collected at 2' bg at 0900 on 11/12/09 3 0 SB-108A-4C was collected at 0 4' bg at 0905 on 11/12/09 0 RUN-2 9 36 FILL (non-native): Loose yellow fine to medium 0 SAND, dry 118.2, UNIMATIC ISRA CLOSURESOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ....6N CAL...Template TEMPLATE.GDT 0 FILL (non-native): Loose yellow coarse SAND, dry 0 SB-108-8 was collected from 8' bg at 1000 on 10/15/09 0 9 10 0 0 12 0 SB-108B-12 was collected at Hard brown CLAY, dry 12' bg at 1040 on 01/26/10 13 0 RUN-4 8 0 15 0 16 0 SB-108B-16 was collected at 16' bg at 1045 on 01/26/10 17 18

0 3:50:45 PM ... Report: Log

1

GZA GeoEnvironmental, Inc.

Sheet

of

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Project Project No	Unimatic Manufacturing			Clie	ation ent				ood Lane Manufactı	ring Inc
Orilling Co	12.0075418.20				vation and	Date		Vot Availa		inng, inc.
Drilling Eq	nawk Drilling Company	· ·		Dat	e Started	·-			Da	te Finished 11/12/09
Sampler	Geoprobe Direct F	rusn		1	al Boring D			10/15/09	De	pth to Rock
Sampler F	4' acetate liner mmer Weight (lbs)	Drop (in)		Gro	undwater		·	16 ft Initial ∑		oletion 🕎 _ 24 Hours 🕎
Orilling Fo	-1		-	Der	oth (ft) A Inspecto				1Ch	anked By
711111 g 1 0	Brett Pierson			1			<u>C</u>	atherine Sample Da	rang	Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре	Recov. (in) Penetr. resist BI/6in	N-Value (Biows/foot) 10 20 30 40	Remarks
- 0 =	FILL (native): loose brown coarse Gravel, some dark brown fine to medium Sand, dry				****					
1 =	•	0		·	₩		N			
]					*****	RUN-1	<u>8</u>	24		05 4004 0
- 2 -		0			₩₩	2	٥Ν			SB-109A-2 was collected a bg at 0925 on 11/12/09
- 3 -	•				*****	i	N			
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4 =					⋘	_				SB-109A-4C was collected
:		١٠			‱					4' bg at 0930 on 11/12/09
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- 10 -		0				2		2		
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- 11 -		0			******					
12										
<u> </u>	FILL (non-native): Loose brown fine to medium SAND, dry	١			₩₩					
13 -	• •	0			₩₩					SB-109-13 was collected a
14.					₩₩	4]		bg at 0850 on 10/15/09
14.		0			₩₩	RUN-4		8	178	
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Sheet 1 of

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Project	Unimatic Manufacturing			Location		25	Sherw	ood Lan	e			
Project N	12.00/5418.20			Client	10.		imatic	Manufac	turing, Inc	•		
Drilling C	nawk Drilling Company	·		Elevation and		um No	t Avail		San Faire Co			<u>::</u>
	quipment Power-probe Drilling Method Direct Push	h :		Date Started			/15/09		Date Finished	1/26/	10	
Sampler	4 acetate imer			Final Boring		n	16 ft		Depth to Rock			
	• • • • • • • • • • • • • • • • • • • •	o (in)	_	Groundwater Depth (ft)		Ini	itial <u>V</u>		mpletion <u></u>	_ 24 H	lours <u>Y</u>	<u> </u>
Drilling F	Brett, Steve & Andrew			GZA Inspect	or		herine	rang	Checked By	Ben Alt	er	
Depth (ft)	Sample Description	PID Reading (ppm)		MATERIAL SYMBOL	Number		Bl/6in Bl/6in	N-Value (Blows/foot 10 20 30 40	·	Remar	ks	
- 0 -	FILL (native): loose brown coarse Gravel, bricks, dry				-							
1 -	FILL (native): loose dark brown fine to medium Sand, some brown coarse Gravel, brick, dry	0			L-1							
2 -		0			RUN-1	9 8)A-2 was o 940 on 11		d at
3 7		0			-							
- 5		0							4' bg a)A-4C was t 0950 on	: collect 11/12/0	ed a
- 6 -	Ell L (notive): Leane block for to medium CAND				RUN-2	GP 36						
. 7 -	FILL (native): Loose black fine to medium SAND, dry	0			푒							
- 8 -	FILL (native): Medium dense dark brown medium	0							SB-110)-8 was co	llected	at 8
9 -	to coarse SAND, dry	0						Harry Harry		840 on 10		
- 10 -	FILL (native): Medium dense dark brown SILT, dry	0			RUN-3	2 GB						
- 11 -		0	,		<u>.</u>							٠
- 12 -		0							SB-110)B-12 was at 1020 on	collecte	ed a
- 13 -		0									. 5 (120)	
· 14 -		0			RUN4	₽ 8						
· 15 -		0										
· 16 -		0		XXXXX			+		SB-110	B-16 was	collecte	ed a
- 17 -					,				16' bg a	at 1025 on	01/26/	10
18 -												
· 19 -											٠	
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418.2, UNIMATIC ISRA CLOSURE/SOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/15... NICAL ...Template TEMPLATE.GDT



Sheet of Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Date Finished Drilling Method Date Started **Drilling Equipment** 1/26/10 **Direct Push** 10/15/09 Power-probe Final Boring Depth Depth to Rock Sampler 16 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) 24 Hours 🕎 Initial ∇ Completion **Y** Depth (ft)
GZA Inspector Checked By **Drilling Foreman** Ben Alter Catherine Fang **Brett, Steve & Andrew** Sample Data Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 0 FILL (native): loose brown coarse Gravel, brick, 1 0 FILL (native): loose brown coarse Gravel, some loose dark brown fine to medium Sand, brick, dry RUN-1 36 2 SB-111A-2 was collected at 2' 0 bg at 1000 on 11/12/09 3 n JYZ5400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE'SOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 6/19/2010 3:43:27 PM ... Report: Log-NL-GZA GEOTECHNICAL ... Template TEMPLATE.GDT SB-111A-4C was collected at 0 4' bg at 1005 on 11/12/09 5 0 RUN-2 8 6 0 0 FILL (native) Loose dark brown SILT, some loose dark brown fine to medium Sand, dry SB-111-8 was collected at 8' 8 0 FILL (native): Medium dark brown medium to bg at 0830 on 10/15/09 coarse SAND, some purple stuff, dry 9 0 RUN-3 36 မြုံ SB-111B-10 (Purple) was collected at 10' bg at 1030 on 10 0 FILL (native): Hard dark brown CLAY, moist 01/26/10 11 0 SB-111B-12 was collected at 12 0 FILL (non-native) Loose yellow brown medium 12' bg at 1000 on 01/26/10 SAND, dry 13 0 RUN4 36 14 0 15 0 SB-111B-16 was collected at 16 ń 16' bg at 1005 on 01/26/10 17 18 19

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Project	Unimatic Manufacturing		····	Location			25 Sherv	vood Lar	e		
Project No.	12.0075418.20			Client					cturing, Inc	•	
Orilling Company	Hawk Drilling Company			Elevation ar	nd Da	4	Not Avail	able		······································	
rilling Equipme	Geoprobe Drilling Method Direct F	Push		Date Started	d		10/13/09		Date Finished	10/13/09	
ampler	4' acetate liner		\neg	Final Boring	Dep	th	22 ft		Depth to Rock	-	
ampler Hamme	Weight (lbs)	Drop (in)	_	Groundwate	er		Initial 🔽		mpletion	_ 24 Hours \(\sqrt{S}	7
Orilling Foreman	Brett Pierson			Depth (ft) GZA Inspec	tor		andeep		Checked By	Ben Alter	=
	Diett Fielson	g	一	ر و			Sample D	ata		Dell Alter	
Depth (ft)	Sample Description	PID Reading (ppm)	E) (1	(t) NATERIAL SYMBOL	Number	Туре	Recov. (in) Penetr. resist Bl/6in	N-Value (Blows/foo 10, 20, 30, 4	1	Remarks	
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Dar	k brown f-m silty SAND. some Gravels, tightly ked	_] •									
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Dar	k brown c SAND mixed with wood chip	-				N					
40	Brown c SAND, some Gravels	_{1.5}									
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17		18.9									
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18 –		38.5			RUN-5	<u>6</u>]	&		SR-112	-16 collected at	
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75400 TO 75 5418.2, MPLATE GDT

Boring Log SB-112

GZA GeoEnvironmental, Inc.

Project	Unimatic Manufacturing			1	ation			25.5	Sherw	ood Lane		
Project No.	12.0075418.20			Clie	-			Unii	matic	Manufactu	ring, Inc.	
Drilling Company	Hawk Drilling Company			Ele	vation an	d Dat	him	Not	Avail	able		
Dooth		gujpe (c		Fley,	Ş₫		٠	Sa	mple D	ata	Remark	e
Depth (ft)	Sample Description	PID Reading (ppm)		⊟ev. (ft)	MATERIAL SYMBOL	Number	Туре	(in)	Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40	Kemark	.
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Boring Log SB-113

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Project	Unimotic Manufacturina			Location			25 Shore	rood I a	oneet .	1 01	<u>-</u>
Project N	Unimatic Manufacturing 12.0075418.20			Client			25 Sherw Unimatic		ne acturing, Inc		
Drilling C	Hawk Drilling Company	· · ·		Elevation an	d Da	4	Not Avail		zoturniy, iilo		
Orilling E	quipment Geoprobe Drilling Method Direct Pu	eh		Date Started	<u> </u>		10/19/09		Date Finished	10/19/09	_
ampler	4' acetate liner			Final Boring	Dept	th	24 ft		Depth to Rock	10/13/03	
Sampler		rop (in)		Groundwate	:r	- 1	Initial ∇		completion	_ 24 Hours V	
Orilling F	oreman Prott Diorean			Groundwate Depth (ft) GZA Inspect	tor				Checked By	Ben Alter	
	Brett Pierson	20	Т	 	1		atherine Sample Da	rang ata		ben Alter	_
Depth (ft)	Sample Description	PID Reading (ppm)	E	(t) .va WATERIAL SYMBOL	Number	Туре	Recov. (in) Penetr. resist Bl/6in	N-Valu (Blows/fo		Remarks	
- 0 -	Loose brown fine to medium SAND, some brown coarse Gravel, little brown Silt, dry					N					
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Port: Log - NJ-GZA_GEOTECHNICAL ...Template

5400 TO 73

Boring Log SB-113

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Project No		12.	0075	418.	20								Clie				Uni	matic	Man	ufactu	ıring, İnd	Ç.		
Drilling Co	mpany	Hav	wk D	rilling	Cor	npar	ny						Ele	vation ar	nd Da	tum	Not	Avai	lable		,			
Depth (ft)			S	ampl	e De	scrip	otion				PID Reading (ppm)		Elev. (ft)	MATERIAL	Number	Type		Penetr. resist aldu Bl/6in		/alue rs/foot) 30 40		Rer	narks	
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	ompany	Hawk Drilling Co	mpany	.al				ate Started				Availa	able	TDat	e Finished		
	quipment	Geoprobe	Drilling Metho	^a Direct	Pust	۱ <u>.</u>					10/1	13/09		1	oth to Rock	10/13/09	
ampler		4' acetate liner			16	70-1	1	nal Boring		n 		. 8 ft				<u> </u>	
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Orilling F	oreman	Brett Pierson					, G	ZA Inspec	tor	S	Sanc	leep S	Singh	Che	ecked By	Ben Alter	
Depth (ft)		Sample De	escription		•	PID Reading (ppm)	Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bl/6in	N-Val (Blows/	foot)		Remarks	
- 0 -	Light I	brown f-mSAND, so ial Fill, dry and loose	me Gravel, tr	ace		<u>a</u>	<u>. </u>		Z				10 20 3	0 40			
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6418.2, UNIMATIC ISRA CLOSUREIGINT112.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:51:24 AM ...

SB-115 Boring Log

GZA GeoEnvironmental, Inc.

Sheet

of

1 1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Date Started Date Finished Drilling Equipment Drilling Method Geoprobe **Direct Push** 10/13/09 10/13/09 Sampler Final Boring Depth Depth to Rock 8 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 24 Hours V Completion ____ Depth (ft) GZA Inspector **Drilling Foreman** Checked By Ben Alter Sandeep Singh **Brett Pierson** Sample Data PID Reading (ppm) Depth (ft) N-Value (Blows/foot) Elev Remarks Sample Description (ft) 10 20 30 40 0 Light brown f-m SAND, some Gravel, trace Artificial Fill, dry and loosely packed 0 RUN-1 0 3 0 0 Dark brown f-m silty SAND, some Gravel, trace Artificial Fill, tightly packed 5 0 RUN-2 30 6 SB-115-6 collected at 6-6.5' bg 0 at 1055 0 8 0 9 10 12 13 15 16 17 18 19

1375400 TO 75599175418.2, UNIMATIC ISRA CLOSURE/GINTN2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:51:30 AM ... Report. Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

Boring Log SB-116

Sheet

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of .

Project				Location					
Project N	Unimatic Manufa	acturing		Client		25 Sherw			
Drilling C	12.00/5418.20	· · ·		Elevation and	d Datum			turing, Inc.	
	nawk Drilling Co	T C 200 - 1 A 4 - 4 - 1		1		NOT AVAIL	able	toto Elnishad	
	quipment Geoprobe	Drilling Method Direct P	ush	Date Started		10/13/09		ate Finished	10/13/09
Sampler	4 acetate imer			Final Boring		8 ft	D	epth to Rock	-
	. - i	Veight (lbs)	Orop (in)	Groundwater Depth (ft) GZA Inspect	r .	Initial <u>V</u>		npletion <u></u>	_ 24 Hours <u>Y</u> _
Drilling F	oreman Brett Pierson			GZA Inspect	or	Sandeep S	Singh C	hecked By E	en Alter
Depth			m) m)	Elev. Haring		Sample Da	ta		
(ft)	Sample De		PID Reading (ppm)	(tt) (tt) waterial symbol.	Number	Recov. (in) Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40	I	Remarks
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- 4 -	Dark brown f silty SAND,	some Gravel, trace Fill.	0						
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6418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:51:40 AM ... N

Boring Log SB-117

GZA GeoEnvironmental, Inc.

Sheet

of

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company **Drilling Method** Date Started Date Finished **Drilling Equipment** 10/13/09 **Direct Push** 10/13/09 Geoprobe Depth to Rock Sampler Final Boring Depth 8 ft 4' acetate liner Weight (lbs) Sampler Hammer Drop (in) Groundwater Initial abla24 Hours V Completion _____ Depth (ft) GZA Inspector Checked By **Drilling Foreman** Ben Alter Sandeep Singh **Brett Pierson** PID Reading (ppm) Sample Data Elev (ft) N-Value Depth Remarks Sample Description Type Penetr resist Bl/6in (Blows/foot) (ft) 10 20 30 40 0 Brown f-m silty SAND, some Gravel, trace Cobbles, dry, trace Fill 0 I/75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:51:46 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT RUN-1 3 Dark brown f-m silty SAND, trace Gravel, trace, 0 tightly packed 3 0 0 Dark Red brown f silty SAND, trace Gravel, tightly 0 RUN-2 ც 8 SB-117-6 collected at 6-6.5' bg 0 at 1110 0 0 13 15 16 17 18

Sheet

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rilling C	ompany	Hawk Drilling Cor	mpány	•			E	evation an	d Da	-		Avail			3,			
rilling Ed	quipment	Power-probe	Drilling Method	Direct F	oush		Da	ate Started	1			11/09		Dat	e Finished	1/4/	10	
ampler	 •	4' acetate liner	· · · · · · · · · · · · · · · · · · ·	2			Fi	nal Boring	Dep		• • • •	34 ft		Dep	th to Rock		l ft	
ampler I	Hammer	- uocidio iiioi	eight (lbs)		Drop (in) _	G	roundwate	r		Initia			Comp	letion T		lours 🔽	
rilling Fo	oreman	Brett, Steve & Br	·/an				G	epth (ft) ZA Inspect	tor				Fang	TCh	cked By	Ben Alt		
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Depth (ft)		Sample De		•	PID Reading	(index)	Elev. (ft)	MATERIAL	Number	Туре	$\overline{}$	Penetr. resist Bl/6in	N-Va (Blows 10 20 3			Remar	ks	
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5418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:52:03 AM

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Project i	4o. 12.0075418.20			ent			Ųni	matic	Manufactu	ring, Inc.
Drilling (Company Hawk Drilling Company		Ele	evation and	d Da	him	Not	Avail	able	
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- - 30 -	Hard brown CLAY, wet	0								
- - 31 -	Tale Significant, rec	0								
- - - 32 -		0			RUN-8	GP	84			SB-118A-32 was collected
24 - 25 - 26 - 27 - 28 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 41 - 42 - 41 - 42 - 41 - 42 - 41 - 42 - 41 - 42 - 41 - 42 - 41 - 42 - 41 - 42 - 41 - 42 - 42		0			۳.					32' bg at 1500 on 01/04/10
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Sheet

1 of 2

The Company Hawk Drilling Company Hawk Drilling Company Hawk Drilling Company Hawk Drilling Company Hawk Drilling Company Geoprobe Drilling Method Direct Push Description Profes At acctate liner maker Harmer Profes At acctate liner maker Harmer Profes Bright Description Profes At acctate liner maker Harmer Drilling Foremen Brett Pierson GCA Inspector Catherine Fang Drilling Sample Description Sample Description Brett Pierson GCA Inspector Catherine Fang Drilling Sample Description Brett Pierson GCA Inspector Catherine Fang Drilling Sample Description GCA Inspector Catherine Fang Drilling Sample Description GCA Inspector Catherine Fang Drilling Sample Dates Sample Description GCA Inspector Catherine Fang Drilling Sample Dates Remarks GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector Catherine Fang Drilling November GCA Inspector GCA In	Project	Unimatic Manufacturing			Location			25 5	Sherw	ood L	ane			_
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priper 4 a acetate liner pulper large framer Weight (libs) Drop (in) Scondwaler Drop (in) Scondwaler Drop (in) Scondwaler Drop (in) Scondwaler Drop (in)		Hawk Drilling Company									15	ta Delek - J		
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Illing Foreman Brett Pierson Cath Impediator	Sampler	4' acetate liner			1		n —.	·			_!_			_
Sample Description Sample Description Sample Description Loose brown fine to medium SAND, some brown coarse Gravel, dry The distribution of the coarse Gravel, dry Medium dense brown fine to medium SAND, some brown some brown sity Clay, little coarse Gravel, dry Medium dense brown fine to medium SAND, some brown some brown sity Clay, little coarse Gravel, dry Sample Description Remarks Sample Description Sample Description Sample Description Remarks Sample Description		-1 - 1	op (in)		Depth (ft)			Initia	ıΣ	20		_	24 Hours <u>\vec{Y}</u>	
Sample Description Loose brown fine to medium SAND, some brown Coarse Gravel, dry Loose brown fine to medium SAND, some brown Coarse Gravel, dry Coarse Gravel, d	Drilling Fo	Brett Pierson			GZA Inspect	tor	<u> </u>	ath	erine	Fang	Cr	necked By	Ben Alter	
Loose brown fine to medium SAND, some brown coarse Gravel, dry 1	Depth (ft)	Sample Description	ID Reading (ppm)	E	(tt) (yallan symbol.	umber	Туре			N-Va (Blows		<u>.</u>	Remarks	
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Medium dense brown fine to medium SAND, some brown silty Clay, little coarse Gravel, dry 13 Stiff brown fine to medium silty CLAY, some brown medium Silt, dry SB-119-16 was collected at a big at 1600]		"			}		·						
Medium dense brown fine to medium SAND, some brown silty Clay, little coarse Gravel, dry 13 14 Stiff brown fine to medium silty CLAY, some brown medium Silt, dry 0 SB-119-16 was collected at a big at 1600	9 -													
Medium dense brown fine to medium SAND, some brown silty Clay, little coarse Gravel, dry 13 -	1		"						-					
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Medium dense brown fine to medium SAND, some brown silty Clay, little coarse Gravel, dry 13 14 Stiff brown fine to medium silty CLAY, some brown medium Silt, dry 0 SB-119-16 was collected at a bg at 1600	1		ľ			₹								
Medium dense brown fine to medium SAND, some brown silty Clay, little coarse Gravel, dry 13 -	11 -		6				ΙN	.						
some brown silty Clay, little coarse Gravel, dry 13 -	7													
some brown silty Clay, little coarse Gravel, dry 13 -	12 🕂	Medium dense brown fine to medium SAND.	-			-		\dashv					•	
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E/75400 TO 753 6418

SB-119 Boring Log

GZA GeoEnvironmental, Inc. Sheet 2 of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available **Hawk Drilling Company** Sample Data PID Readin (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 20 Stiff brown fine to medium silty CLAY, some 0 brown medium Silt, wet 21 0 RUN-6 8 22 0 23 0 24 SB-119-24C was collected at 0 24' bg at 1610 25 26 27 28 29 30 31 32 33 34

1175400 TO 75599175418.2, UNIMATIC ISRA CLOSUREIGINTY12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:52:13 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

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SB-120 Boring Log

Sheet

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Project			Location					Sneet	1 01 2
Project No.	Unimatic Manufacturing		Client			5 Sherv			
Drilling Company	12.0075418.20		Elevation and	Date				facturing, Inc.	
Drilling Equipme	nawk Drilling Company		Date Started		<u>N</u>	ot Avail		Date Finished	4014122
Sampler	Geoprobe/Auger Direct Push/	HSA	Final Boring			12/4/09		Depth to Rock	12/4/09
Sampler Hamme	4' acetate liner&1.5" split spoon Weight (lbs) Drop (Groundwater			36 ft			36 ft
Drilling Foreman		•	Depth (ft) GZA Inspect			nitial <u>V</u>		Completion Checked By	_ 24 Hours <u> _</u> _
J.III.ig i Oreinali	1000					therine Sample D		1	Ben Alter
Depth (ft)	Sample Description	(full)	MATERIAL SYMBOL	Number		(in) Penetr. resist	A1 1/-	foot)	Remarks
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<u> </u>		。			N				
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F 4 + Fin	L (native): loose brown medium to coarse	0							
Sar	nd, some Silt, some Gravel, dry	.	******						
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Boring Log SB-120

2

GZA GeoEnvironmental, Inc.

Sheet

of

Project	Unimatic Manufacturing			1	cation				Sherw			
Project No	12.00/5418.20			Cli				Uni	matic	Man	ufactu	uring, Inc.
Drilling Co	mpany Hawk Drilling Company			Ele	vation and	Dat	tum	Not	Avail	able		
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bl/6in aldw	N-V (Blow	alue s/foot) 30 40	Remarks
- 20 -		0			*****					TT	ΤÏ	
21 -		0					11 11					
- 22 -		0				RUN-6	GP	40				
23	Loose brown fine to medium SAND little Gravel, saturated	- 0			x							
- 24 -	Saturated	0										
- 25 -		0				RUN-7	AUGER	70				
26	•	0								Anne de la contraction de la c		
27		0				RUN-8	AUGER	24				
28		0										SB-120-28 was collected bg at 1200
29 -		0				RUN-9	AUGER	24				by at 1200
30		0		:		_	٨		-			
31	Medium dense brown fine to medium SAND,	0				UN-10	AUGER	20				
32	some rocks, saturated	0				α.	H					
33 -		0				NN-11	AUGER	24				
34 -	•	0					H					
35 -		0				RUN-12	AUGER	24				
36		- •				-					COLUMN TO ANY DESCRIPTION	SB-120-36C was collect 36' bg at 1300
37 -	,											00 bg at 1000
38 -												
39 -	·											
- - 40 -												
26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 36 - 37 - 36 - 37 - 36 - 37 - 38 - 38 - 39 - 38 - 39 - 38 - 39 - 38 - 39 - 38 - 38					N.							
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SB-121 Boring Log

Sheet

2 of Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Elevation and Datum **Drilling Company** Hawk Drilling Company Not Available **Drilling Equipment Drilling Method** Date Started Date Finished 12/30/09 **Direct Push** 11/19/09 Geoprobe Final Boring Depth Depth to Rock Sampler 36 ft 36 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial $\underline{\nabla}$ Completion T 24 Hours V **Drilling Foreman** Checked By Steve & Bryan Catherine Fang Ben Alter PID Reading (ppm) Sample Data Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 0 FILL (native): loose yellow medium to coarse Sand, Asphalts, some Gravel, dry 0 RUN-1 Θľ. 0 3 0 0 FILL (native): loose brown medium to coarse Sand, some Silt, some Gravel, dry 0 RUN-2 <u>g</u>[0 418.2. UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGSI(2.0075418.20_BORING LOGS.GPJ ... 6)
CAL ... Template TEMPLATE.GOT 0 0 0 RUN-3 10 위, 0 0 12 0 13 RUN4 링 0 15 0 16 0 FILL (native): loose dark brown medium to coarse Sand, some Silt, some Gravel, moist 17 0 9 18 5 0 0

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Boring Log SB-121

GZA GeoEnvironmental, Inc.

Sheet

2 of

Project N	Unimatic Manufacturing			lient					ood La		
Drilling Co	12.00/5418.20		l	levation an	d Da	hum				actu	ring, Inc.
Drawing Co	Hawk Drilling Company			ievauon an	u Da	Luiii	Not /	Availa	able	- 1	
Depth (ft)	Sample Description	PID Reading (ppm)	Elev (ft)	MATERIAL SYMBOL	Number	Туре	Sam (i) (ii)	iple Da	N-Valu (Blows/fo		Remarks
20	FILL (native): loose dark brown medium to coarse Sand, some Silt, some Gravel, wet	0			Z				10 20 30	7 40	
21 -		0			RUN-6	GP	9				
22 -		0			RU	S N					
23 -		0									
25	Loose brown coarse SAND, some coarse Gravel, saturated	0						:			
26		0			RUN-7	GP	12				
- 27 -		0			œ				Account of the second s		·
28 -		0									SB-121-28 was collected bg at 1130
29 -		0			_						
30 -		0	:		RUN-8	GP	24				
31 -		0									,
32 -		0			-				is the second of		
- 33		0			RUN-9	۵	4				
34		0			₽	GP	24				
35 -											SR-121-36C was collect
36 - 36 - 37 - 38 - 39 - 40 - 41 - 41 - 41 - 41 - 41 - 41 - 41		°			:						SB-121-36C was collect 36' bg at 1135
38 -											
39 –					-				Company of the Compan		
40 -											·
41 -											
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SB-122 Boring Log

Sheet

of

2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum **Hawk Drilling Company** Not Available Date Finished Date Started **Drilling Equipment** Drilling Method 12/30/09 Geoprobe **Direct Push** 11/19/09 Final Boring Depth Depth to Rock Sampler 36 ft 36 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion T 24 Hours V Depth (ft)
GZA Inspector Checked By Drilling Foreman Ben Alter Catherine Fang Steve & Bryan PID Reading (ppm) Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 0 FILL (native): loose dark brown medium to coarse Sand, some Gravel, little Silt, dry 0 RUN-1 8 0 0 0 0 RUN-2 g) 0 A18.2, UNIMATIC ISRA CLOSURESOIL BORING&WELL LOGSV12.0075418.20_BORING LOGS.GPJ ... 6/ INICAL ... Template TEMPLATE.GDT 0 0 0 RUN-3 읪) 10 0 0 0 0 RUN4 0 15 0 16 Loose red brown medium to coarse SAND, little 0 Gravel, moist 17 0 RUN-5 **₽** 8 18 Ó

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Boring Log

36' bg at 1243

GeoEnvironmental, Inc. Sheet 2 of 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company **Not Available** Hawk Drilling Company Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth (ft) Remarks Sample Description 20 Loose red brown medium to coarse SAND, little Gravel, wet 21 0 RUN-6 22 0 23 0 24 0 25 0 26 0 27 0 Dense dark brown coarse SAND, saturated 28 SB-122-28 was collected at 28' 0 bg at 1240 29 0 RUN-7 8 30 Q 31 0 32 0 33 0 RUN-8 34 0 35 0 SB-122-36C was collected at 36 0

J:\75400 TO 75599\75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:52:39 AM ... Report. Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

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38

SB-123

GeoEnvironmental, Inc. Sheet of 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company Drilling Equipment** Drilling Method Date Started Date Finished Direct Push/HSA 11/18/09 12/4/09 Geoprobe/Auger Final Boring Depth Depth to Rock Sampler 36 ft 36 ft 4' acetate liner&1.5" split spoon Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion **T** 24 Hours V Checked By Drilling Foreman Catherine Fang Ben Alter **Brett & Todd** Sample Data ⊟ev (ft) Depth N-Value (Blows/foot) Remarks Sample Description Type (ft) 10 20 30 40 0 FILL (native): loose dark brown medium to coarse Sand, Gravel, dry 0 RUN-1 잆 Ó 3 Ō 0 0 RUN-2 <u>∞</u> 믮 0 1.75400 TO 755. WA 8.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGSI(2.0075418.20_BORING LOGS.GPJ ... 6/19/2/ U-62A GEOTECHNICAL ...Template TEMPLATE.GDT 0 0 0 RUN-3 Ò 0 12 Loose grey medium to coarse SAND, some 0 Gravels, wet at 20' bg 13 0 RUN4 읪 14 0 15 0 16 0 0 RUN-5 g B 18

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Boring Log SB-123

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Sheet 2 of Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Sample Data PID Reading (ppm) N-Value (Blows/foot) Depth Remarks Sample Description 20 0 21 0 RUN-6 22 0 23 0 Medium dense brown medium to coarse SAND, some Gravel, saturated AUGER RUN-7 8 25 0 26 0 AUGER 27 Ó 28 SB-123-28 was collected at 28' 0 bg at 1530 on 12/04/09 AUGER 8 29 0 30 0 ∞ 31 Medium dense brown medium to coarse SAND, 0 saturated 32 0 33 0 34 0 **RUN-12** <u>დ</u> 35 0 SB-123-36C was collected at 36' bg at 1600 on 12/04/09 36 0 37 38

GZA GeoEnvironmental, Inc.

Sheet

of

2 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Drilling Equipment Drilling Method Date Started Date Finished 11/30/09 Geoprobe/Auger Direct Push/HSA 11/17/09 Final Boring Depth Depth to Rock Sampler 36 ft 36 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion <u>_____</u> 24 Hours V Checked By **Drilling Foreman** Ben Alter **Brett & Todd** Catherine Fang Sample Data MATERIAL SYMBOL Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description (ft) 10 20 30 40 0 Loose brown fine to medium SAND, some coarse Gravel, dry 0 0 RUN-1 36 0 0 0 0 0 RUN-2 8 ᡖ 0 0 10 Loose brown fine to medium SAND, some brown 0 Silt, little coarse Gravel, dry 11 0 12 0 RUN-3 ဨ 8 13 0 0 0 0

0

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RUN4

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Boring Log SB-124

GZA GeoEnvironmental, Inc.

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Project No	Unimatic Manufacturing			C	ent					vood Lane	ring Inc
Drilling Co	12.0075418.20	· ·		E	evation an	d Da	turn	-	,		anny, mo.
	Hawk Drilling Company	100		ᆛ.					Avail		1
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре	T	Penetr. resist		Remarks
- 20 -	Loose brown fine to medium SAND, some brown Silt, little cobbles, dry	0									
: ,, ‡	Sitt, little cobbles, dry					RUN-5	AUGER	9			1 ,
- 21 -		0				₽	Ą				
- 22							Ш				
: " ;	Dense brown medium to coarse SAND, some cobbles, wet] •					~				
23						RUN-6	AUGER	₩			
: 1		"				₹	₹				
- 24 -	Loose brown medium to coarse SAND, some	-			 	_	dash	 -	 		
: 1	cobbles, sturated	ľ				 	œ				ļ
25		0			 	RUN-7	AUGER	24			
= =						1 2	F				
- 26 -	es en	0				}_	1-1		<u> </u>		SB-124-26 was collect
= =						ω,	AUGER	_			bg at 1400 on 11/1//0
27 -		0	l			RUN-8	19	24	Ì		,
= =						[_			<u>L.</u> .		
- 28 -		0				<u> </u>					
= _ =		1				RUN-9	AUGER	9	1	Name of the state	
- 29 - -		0				₽	Ĭ				Ā
30		-				1_	\sqcup	-	 	4	
= 33 =	Loose brown Silt, some brown medium to coarse Sand, little cobble, saturated	"			<u> </u>	9	2				
31 -	• • •	0			· · · -	Įξ	AUGER	2			
		1			<u>-</u>	18	¥	(
24 - 25 - 26 - 27 - 28 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 36 - 37 - 38 - 36 - 37 - 38 - 38 - 38 - 38 - 38 - 38 - 38	Dense brown medium to coarse SAND, some	-		1		+	1		†	1 1 1 1	
- 1	Gravel, saturated		ļ			∮₩	띪	I			
- 33 -		0				RUN-11	AUGER	٩	1		
‡ ‡						1					
34 -		0									
[_						RUN-12	AUGER	ဖ			SB-124-26 was collected bg at 1400 on 11/17/09 SB-124-36C was collected 36' bg at 1530 on 11/30/
- 35 -	·	0		1		3	Š				
<u> </u>		_ ا				1_	\downarrow	!	-		
- 36 -		\mathbb{T}°									36' bg at 1530 on 11/3
37											
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38			-					1			
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39			1								
F 3						1			1		
- 40 -											
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F 41 -				}							
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SB-125 Boring Log

Sheet

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Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available Hawk Drilling Company **Drilling Equipment** Drilling Method **Date Started** Date Finished 11/17/09 11/17/09 Geoprobe **Direct Push** Final Boring Depth Depth to Rock Sampler 30 ft 5' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 💆 Completion T 24 Hours V Checked By **Drilling Foreman** Catherine Fang Ben Alter **Brett Pierson** Sample Data PtD Reading (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks **Sample Description** Recov (in) 10 20 30 40 0 FILL (native): loose grey fine to medium Sand, asphalt, some Gravel, dry 0 0 RUN-1 24 3 0 0 0 0 M48.2, UNIMATIC ISRA CLOSURESOIL BORING&WELL LOGSN12.0075418.20_BORING LOGS.GPJ ... 6/1/ IICAL ... Template TEMPLATE.GDT 0 RUN-2 9 36 0 0 10 0 FILL (non-native): loose light brown fine to medium Sand, dry 0 0 RUN-3 9 36 0 0 Ó 16 0 0 RUN4 36 0 0

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SB-125 Boring Log

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of Sheet Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available Hawk Drilling Company Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 20 Loose red brown medium to coarse SAND, some coarse Gravel, wet 21 0 22 RUN-5 0 23 0 24 0 25 0 Loose red brown medium to coarse SAND, some coarse Gravel, saturated SB-125-26 was collected at 26' 26 0 bg at 1110 27 0 28 0 29 0 30 0 31 32 33 34 35 36 37 38 39

GZA GeoEnvironmental, Inc.

Boring Log **SB-126**

Sheet 1

2 of

Project	Unimatic Man	ufacturing		- 1.	cation			25 \$	Sherw	ood La	ane	•-	
Project N	12.0070410.2	0			ient			Uni	matic	Manuf	actu	ıring, İnc.	
Drilling C	Hawk Drilling	Company			evation an		itum	Not	Availa	able	•		
	quipment Geoprobe	Drilling Method Dire	ect Push	1	ate Started			11/	12/09		1.	te Finished	11/12/09
Sampler	4° acetate line	r			nal Boring		th		25 ft	•	De	pth to Rock	-
Sampler	•	Weight (lbs)	Drop (in)	· IDe	oundwate			Initia	al <u>V</u>	20 (Comp	letion <u> </u>	_ 24 Hours \(\sum_{1} \)
Drilling F	oreman Brett Pierson			G	ZA Inspect	tor	(Cath	erine	Fang	Ch	ecked By	Ben Alter
Depth (ft)		Description	PID Reading (ppm)	Elev. (ft)	MATERIAL SYMBOL	Number		Sai	mple Da				Remarks
0 7	FILL (native): loose dar Sand, some coarse Gr	rk brown fine to medium	n	,							T		
1 1	Carlo, Some Coarse Or	avois, di y		1.	\bowtie								
			0		****						-		
2 -						_							
						RUN-1	6	82					
3 -		• .	ľo			æ						· .	
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- 4 -			0	1									
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6 =			0										
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- 8 -		. •		"		RUN-2	O				-		
[]	4	•	-0										,
9 -			0		****				.				
	·				₩₩				, 1				
- 10 -	Medium dense brown S	II T some medium br	own 0		*****	_		\sqcup					•
	Sand, dry	ner, some medium bit							, 1				•
- 11 -					· · · -								
: :									, ·				
12 -			0		$ \overline{\cdot} \overline{\cdot} \dot{\cdot} $	٤-							
= = =					· —	RUN-3	ဗြ	88					
- 13 -			0		<u> </u>	-			. [
<u> </u>					- :::							,	
- '4 -			0		<u> </u>								
_ 15 _					·]					
- " =	Soft brown Silty CLAY,	some brown Silt, dry	0					\neg					
- 16 -									.			OD 105	40 "
= - =			0									SB-126- bg at 12	16 was collecte 30
- 17 -													
:]			0			RUN4	g B	84		and the same of th			
- - 18 -	÷ .		0			<u>۾</u>	\mathbb{A}						
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Boring Log SB-126

GZA GeoEnvironmental, Inc.

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Project No	Unimatic Manufac	y			- ci	ent	-			wood Lane				
Drilling Co	12.0075418.20				- 1	evation an	d Da	11122		Manufact	uring, inc.			
 T	Hawk Drilling Com	ipany		8	-T		<u> </u>		lot Ava Sample D	iabie Data	ļ			
Depth (ft)	Sample Des	scription		PID Reading (ppm)	Elev. (ft)	MATERIAL	Number		(in) Penetr. resist			Rema	arks	
- 20 -	Soft brown Silty CLAY, som	e brown Silt, we	et :	0.	-									•
- 21 -	•			0										
22 -				0			RUN-5	GP GP	84					
23				0			R					-		
24 -				0							SB-126-	24C wa	, as collect	ted
25							_				24' bg a	(1240		
26 -														
27														
= "	•													
28				-								•		
- 29 - -												-	. •	
30 -														
31	•			. !								•		
32														
33												•		
34														
35														
36										-			• •	
24 - 25 - 26 - 27 - 28 - 29 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 36 - 37 - 37 - 38 - 38 - 38 - 39 - 38 - 39 - 39 - 39		•										•		
38 -														
E 30 3														
39 -														
- 40 -														
F 41 -													•	٠.

Sheet

1 of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company **Drilling Equipment** Drilling Method **Date Started** Date Finished 11/12/09 12/29/09 Power-probe **Direct Push** Final Boring Depth Depth to Rock Sampler 32 ft 4' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial 🔽 24 Hours V Completion \(\bullet\) 20 Depth (ft) GZA Inspector Checked By Drilling Foreman Ben Alter Catherine Fang Brett, Steve & Bryan Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 0 FILL (native): loose dark brown medium to fine Sand, some Gravels, dry 0 2 0 RUN-1 3 0 0 0 18.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/ AL ... Tempiate TEMPLATE.GDT 0 RUN-2 Ы) 0 0-10 0 Medium dense brown SILT, some coarse Gravels, 0 12 RUN-3 0 망 13 0 0 15 0 16 0 SB-127-16 was collected at 16' bg at 1425 on 11/12/09 17 0 RUN4 9 18 0 0

Sheet

2 of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Not Available **Hawk Drilling Company** Sample Data ⊟ev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 20 0 Loose greenish grey fine to medium SAND, some Gravels, wet 21 0 22 0 RUN-5 23 0 DAYS400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/GINTA 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:53:24 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT SB-127-24C was collected at 24' bg at 1430 on 11/12/09 0 25 Medium dense brown medium to coarse SAND, 0 saturated 26 27 RUN-6 28 0 29 0 30 0 RUN-7 24 31 0 SB-127A-32 was collected at 32' bg at 1250 on 12/29/09 32 0 33 34 35 36 37 38 39

GeoEnvironmental, Inc. Sheet Project ocation **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **Hawk Drilling Company** Not Available **Drilling Equipment** Drilling Method Date Finished **Date Started** 11/13/09 12/29/09 Power-probe **Direct Push** Sampler Final Boring Depth Depth to Rock 32 ft 5' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial ∇ Completion ____ 24 Hours V 20 Depth (ft) GZA Inspector **Drilling Foreman** Checked By Catherine Fang Ben Alter Brett, Steve & Bryan Sample Data PID Readir (ppm) N-Value (Blows/foot) Depth Elev Remarks Sample Description (ft) (ft) 0 FILL (native): loose brown fine to medium Sand, 0 some cobbles, root and leaves, dry 0 0 36 0 o Ö 0 18.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/19/ AL ... lemplate TEMPLATE.GDT 0 RUN-2 7 0 0 10 Loose brown SILT, some brown fine to medium 0 Sand, little Gravels, dry Ó 12 0 2 13 0 0 Soft brown Silty CLAY, some brown fine to Ô medium Sand, little coarse Gravels, dry 16 0 SB-128-16 was collected at 16' bg at 0920 on 11/13/09 17 0 8 24 0 19

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Project	Unimatic Manufacturing				1	cation			25 9	Sherw	ood Lane			
Project No	12.0075418.20					ent			Uni	matic	Manufactu	ıring, Inc.		 .
Drilling Co	ompany Hawk Drilling Company				E	vation and	d Da	tum	Not	Avail	able			
Depth (ft)	Sample Description		PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Type	_	Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40		Remark	s
上20寸	Soft brown Silty CLAY, some brown fine to medium Sand, little coarse Gravels, wet		0						-		10 20 30 40			
21	medium Sand, little coarse Gravels, wet	:												
[']			0											
22			0				S							
[]	•						RUN-5	[B]	30					
23			0				Œ							
F _ 3												_		
24 -			0									SB-128- 24' bo at	24C was o : 0930 on	collecte 11/13/
25	•	,	0											
F =		•	Ĭ											
26			0											
E _ = =														
- 27 	Stiff dark brown CLAY, wet		0				RUN-6	g B	36					
28 -			0				2		(2)					
E - 1			١											•
29			0		ì	-								•
<u> </u>							٠							
30	•		0					N						
31			0				N-7	GP.	24		tops a province of			
<u> </u>						<u> </u>	쪼							
32			0				-			-		SB-128/	N-32 was (collect
												32 bg a	1500 on	12/29/
F 33 -	•													
34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42						, ,								
F = =						٠.								
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Project	,			Location	05.01	
Project N	Unimatic Manufac	cturing	· · · · · · · · · · · · · · · · · · ·	Client	25 Sherwood Lar	
Drilling C	12.0075416.20			Elevation and Datur	Unimatic Manufa	cturing, Inc.
	nawk Dinning Con	Deiline Mathead	· · · · · · · · · · · · · · · · · · ·	Date Started	Not Available	Date Finished
Sampler	Power-probe	Direct F	² ush	Final Boring Depth	12/28/09	Depth to Rock
	4 acetate imer	eight (lbs)	Drop (in)	Groundwater	24 π	•
Drilling F	-		-	Depth (ft) GZA Inspector		empletion 24 Hours Checked By
J	Steve & Bryan		<u> </u>	1	Catherine Fang Sample Data	Ben Alter
Depth (ft)	Sample De	scription	PID Reading (ppm)	MATERIAL SYMBOL Number	Box 10 20 30 4	1
F 0 -	Loose dark SILT, some bro	own coarse Gravel, dry				
2 - 3 -			0 0	RUN-1	24	
4 -			0 0			
7 -			0	RUN-2	36	
8 -	Hard Greenish CLAY, wet		0			
9 -			0			
10 -	. ,		0	RUN-3	88	
11 -			0			
- 12 -			0			
13			0			
14 -			0	RUNA GP	84	
16	Stiff brown CLAY, saturated		_			SB-129-16 was collected at 16
17	Sun biomi oun i, saturatet		0			bg at 0940
18 -			0	RUN-5	30	
20			0			

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Boring Log SB-129

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Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Sample Data PID Reading (ppm) Depth (ft) Elev (ft) Remarks Sample Description Type 20 0 21 0 RUN-6 ᇰ 22 0 23 0 J.Y5400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:53:46 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GOT SB-129-24C was collected at 24' bg at 0950 0 25 26 27 28 29 30 31 32 33 34 35 36 37 38 40

SB-130 Boring Log

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. [Proj	ect	Unimatic Manufacturing			Loc	cation			25 8	Sherv	vood I	ane			
	Proj	ect N	lo. 12.0075418.20			Clie			1	Uni	matic	Manu	ıfactı	uring, Inc.		
			ompany Hawk Drilling Company		-	1	vation an		tum	Not	Avai	lable		•		
			quipment Geoprobe Drilling Method Direct Pus	h			te Started			11/	13/09)		te Finished	11/13/09	
		pler	4' acetate liner			1	al Boring		h		30 fl	† · · ·	De	pth to Rock	-	
	Sam	pleř	Hammer Weight (lbs) Dro	p (in)	-	Gro De	oundwater pth (ft)			Initi	al <u>V</u>	22		oletion <u></u>	_ 24 Hours \(\sqrt{2} \)	<u>Z</u> -
ı	Drilli	ng F	oreman Brett Pierson			GZ	A Inspect	or	C	ath	erine	Fang	Ch	ecked By	Ben Alter	
				gijo	Ι.		ار کا				mple D	ata				
•	De _i	pin t)	Sample Description	PID Reading (ppm)	'	∃ev. (ft)	MATERIAL SYMBOL	Number	Туре	Recov.	Penetr. resist Bi/6in	N-V (Blows	alue s/foot)		Remarks	. [
	<u> </u>) _	FILL (native): loose dark brown fine to medium	<u></u>	\vdash		×××××	Ž.	-	~	9 5 8	10 20	30 40		·	·
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	- 1	0 -	FILL (non-native): Loose yellow fine to medium	0	-	-		\dashv	\neg	-		-				.
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	- 1: -	2 –	Medium dense SILT, some brown fine to medium	0		ľ		3	\mathbb{N}				-	SB-130 bg at 1	-12 was collecte	ed at 12'
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J375400 TO 73. 418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS112.0075418.20_BORING LOGS.GPJ ... 6/N NJ-GZA GEOTECHNICAL ... 1 emplate TEMPLATE.GDT

Boring Log SB-130

Sheet

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of

2

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum Drilling Company Not Available **Hawk Drilling Company** Sample Data N-Value (Blows/foot) Elev (ft) Remarks Depth Sample Description 10 20 30 40 SB-130-20 was collected at 20' bg at 1105 20 Ō 21 0 22 0 RUN-5 23 0 INSA00 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/GINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:53:53 AM ... Report Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 24 0 25 Loose brown fine to medium SAND, some Gravels, little Silt, wet 0 26 0 27 RUN-6 0 GP SB-130-28C was collected at 28' bg at 1110 28 0 29 0 30 0 31 32 33 34 35 36 37 38 39

GeoEnvironmental, Inc.

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GZA GeoEnvironmental, Inc.

Sheet

of **2** ′

Project	Unimatic Manufacturing			Location		2	25 Sherw	ood Lane	
Project N	lo. 12.0075418.20			Client	-		Jnimatic	Manufacti	uring, Inc.
Drilling C	Hawk Unling Company		<u> </u>	Elevation an		tum	Not Avail	able	·
	quipment Power-probe Drilling Method Direct Pus	h .		Date Started			11/13/09	i	te Finished 12/30/09
Sampler	5 acetate liner			Final Boring		th 	33 ft	De	pth to Rock 33 ft
-		p (in)	-	Groundwate Depth (ft)			Initial $\underline{\underline{V}}$		oletion 🕎 💄 24 Hours 🕎
Drilling F	Brett, Steve & Bryan			GZA Inspect	or	С	atherine	rang	ecked By Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	E	(#) .valerial.	Number	Lype	Sample Da (in) Penetr. Resist Bl/6in	N-Value (Blows/foot)	Remarks
- 0 -	FILL: loose brown fine to medium Sand, some	0			Z			10 20 30 40	
. d	coarse Gravels, little Silt, dry		.'						
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	Loose red brown fine to medium SAND, some brown Silt, dry	"	- 1						
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418.2, UNIMATIC ISRA CLOSUREIGINT112.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:54:07 AM ...

Sheet 2 of 2

Project	Unimatic Manufacturing			_ocation			<u> 25 S</u>	herw	ood Lane				
Project No	12.0075418.20			Client			Unir	natic	Manufactu	ıring, Inc).		
Drilling Co	mpany Hawk Drilling Company			Elevation a	nd Da	tum	Not	Avail	able .				
Depth (ft)	Sample Description	PID Reading (ppm)	Ele (ft	MATERIAL SYMBOL	Number	Туре		Penetr. resist aldu Bl/6in Q aldu	N-Value (Blows/foot) 10 20 30 40		Rema	arks	
20 -	Loose red brown fine to medium SAND, some brown Silt, wet	0			-					SB-13 bg at 1	1-20 was 020 on 1	collected 1/13/09	at 1
21 -		0										٠	
22		0			RUN-5	GP	36						
23		0	-		Ē.								
24 -		0	,										
25	Loose red brown fine to medium SAND, some brown Silt, saturated	0	:		_						-		
26		0											
27		0			RUN-6	GP	36						
28		0			. ⊋	0//	6			SB-13 28' ba	1-28C wa	as collect on 11/13/	ed a
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30 =	Medium dense brown fine to medium SAND, wet	0											
31 =		0			- 24	GD	30		Man a mereye mik digar ik.				
32	·	0			ZUN-	9	3	,					
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Sheet 1 of

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available **Drilling Equipment** Drilling Method Date Started Date Finished Geoprobe 6/4/10 **Direct Push** 11/11/09 Depth to Rock Sampler Final Boring Depth 4' acetate liner 8ft Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial ∇ Completion ____ 24 Hours V Depth (ft) GZA Inspector **Drilling Foreman** Checked By Catherine Fang Ben Alter **Brett & Andrew** Sample Data PID Reading (ppm) Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description (ft) 10 20 30 40 0 Loose brown fine to medium SAND, some brown coarse Gravel, dry 0 RUN-1 원(8 SB-133-2 was collected at 2' bg at 1120 on 11/11/09 0 SB-133A-2C was collected at 2'bg at 1040 on 06/04/10 0 0 0 RUN-2 မြွ် 2 0 0 SB-133-8C was collected at 8' 0 bg at 1130 on 11/11/09 SB-133A-8C was collected at 8'bg at 1042 on 06/04/10 10 12 18 19

In: Log - NJ-GZA_GEOTECHNICAL ...Template 418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:54:14 AM ...

175400 TO 79



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Sheet 1 of 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum **Hawk Drilling Company Not Available Drilling Equipment Drilling Method** Date Started Date Finished Geoprobe **Direct Push** 11/11/09 6/4/10 Depth to Rock Final Boring Depth Sampler 24 ft 4' acetate liner Sampler Hammer Weight (lbs) Groundwater Drop (in) Initial $\underline{\nabla}$ Completion \(\bar{\pi} \) 24 Hours V Depth (ft) GZA Inspector Checked By **Drilling Foreman** Catherine Fang Ben Alter **Brett & Andrew** Sample Data Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description (ft) 10 20 30 40 0 Loose brown fine to medium SAND, some brown coarse Gravel, dry 0 1/175400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:54:23 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template FEMPLATE.GDT RUN-1 2 SB-134-2 was collected at 2' 0 bg at 1040 on 11/11/09 SB-134B-2C was collected at 2' bg at 1055 on 06/04/10 3 0 0 0 RUN-2 5 6 0 7 0 8 SB-134-8C was collected at 8' 0 Dense grey SILT, dry bg at 1050 on 11/11/09 SB-134B-8C was collected at 9 8' bg at 1058 on 06/04/10 0 RUN-3 g ဗ္က 10 0 11 0 12 Dense brown SILT, dry 0 13 0 G B 36 0 15 0 16 SB-134A-16 was collected at 0 16' bg at 1400 on 12/16/09 17 0 RUN-5 읪 8 18 0

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Sheet

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of Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Not Available **Hawk Drilling Company** Sample Data PID Reading (ppm) MATERIAL SYMBOL Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 20 Loose brown fine to medium SAND, dry 21 0 RUN-6 24 22 0 23 0 SB-134A-24C was collected at 24' bg at 1410 on 12/16/09 0 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

ort: Log - NJ-GZA_GEOTECHNICAL ...Template

118.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:54:25 AM ...

Sheet 1 of 1

Project		Unimatic Manu	facturing					ocation			25 Sherw			
Project No.		12.0075418.20						lient	d De	4			turing, Inc	•
Drilling Comp		Hawk Drilling C	ompany	atha and	·			levation an		ا	Not Availa	able	ate Finished	· · · · · · · · · · · · · · · · · · ·
Drilling Equip	pment	Geoprobe	Drilling Me	Dire	ct Pus	h		ate Started			11/11/09			6/4/10
Sampler		4' acetate liner						inal Boring		n T	8 ft		epth to Rock	-
Sampler Han			Weight (lbs)	_	Dro	pp (in)	-	roundwate epth (ft)		·	Initial <u>V</u>	1	npletion <u></u>	_ 24 Hours <u>\unders</u>
Drilling Forer	man	Brett & Andrew	'		<u> </u>			ZA Inspect	or	<u>C</u>	Catherine	rang	hecked By	Ben Alter
Depth (ft)			Description			PID Reading (ppm)	Elev (ft)	MATERIAL	Number	Туре	Recov. (in) Penetr. resist Bl/6in Da	N-Value (Blows/foot) 10 20 30 40	3	Remarks
1 - 1 - 2 3 - 3 - 3 3 3 3 3 3 3 3 3 3 3 - 3 3 3 3 3 3 3 3 3 3 3 - 3 3 3 3 3 3 3 3 3 3 3 - 3 3 3 3 3 3 3 3 3 3 3 - 3 3 3 3 3 3 3 3 3 3 3 - 3 3 3 3 3 3 3 3 3 3 3 - 3 3 3 3 3 3 3 3 3 3 3 - 3 3 3 3 3 3 3 3 3 3 3 - 3	Loose fine to	brown fine to medium Gravel, o	dium SAND, dry	some bro	wn	0			RUN-1	GP	24		bg at 16 SB-135	5-2 was collected at 015 on 11/11/09 6A-2C was collected 1105 on 06/04/10
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GZA GeoEnvironmental, Inc.

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Project	Unimat	ic Manufactu	ring				- 1	Location		2	5 Sherw	vood La	ine '		
Project N	lo. 12.007	5418.20						Client		U			acturing, In	c.	,
-	ompany Hawk [Orilling Comp	any	١.			· 1	Elevation an		tum N	lot Avail	able			
	quipment Geopro	be	ling Method	Direct I	Push			Date Started			1/12/09		Date Finishe	12/	16/09
Sampler	4 aceta	ate liner					- 1	Final Boring		th	24 ft		Depth to Roo	*	
Sampler	Hammer	- Weigh	nt (lbs)	-	Drop (i	in)	-	Groundwate Depth (ft)		1	nitial <u>V</u>	16 G	Completion 👤	<u> </u>	24 Hours 🕎
Orilling F	oreman Brett P	ierson						GZA Inspect	or	Ca	atherine	Fang	Checked By	Ben	Alter
Depth (ft)		Sample Desc	ription	}	D Reading	(wdd)	Ele (f	(t) .va	Number	, T	Penetr. Pesist Bl/6in	ata N-Valu	oot)		marks
- 0 -	FILL (non-nativ	e): wood, Grav	el, dry	· · · · · · · · · · · · · · · · · · ·	· a.	+	+	XXXXX	ž	. I	2 2 2 2 2	10 20 30	40		·
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7						0			NUA	9 // // //	7	-			
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9 -	Medium dense	brown SILT, d	ry	V ,		0			RUN-3	GP //	30				
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15 -	Madhim	b600°	MD		, <u>▼</u>							A THE PROPERTY OF THE PROPERTY	95.4	26A 40	uma aslla start
17 -	Medium dense	Drown Tine SA	ND, WEI						9-1	0 11 11 11			16' bg	at 090	was collected a 0 on 12/16/09
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Boring Log SB-136/136A

GZA GeoEnvironmental, Inc.

Sheet

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Project N	Unimatic Manufacturing				cation			25 8	Sherw	ood Lane				
Project No	12.0075418.20			-1	ent	959		Unir	matic	Manufact	ıring, Inc.		. ,	
Drilling Co	Hawk Drilling Company	·		E	evation an	id Dai	tum	Not	Avail	able	······································			
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL	Number	Туре		Penetr. RV6in aldu	N-Value (Blows/foot) 10 20 30 40		Rem	arks	
- 20 - -	Medium dense brown fine SAND, saturated	0												
21		0				9-	" 11 11							
22		0	÷			RUN-6	GP SP	48			• •			
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- 24 -		7 °									SB-136/ 24' bg a	4-24C v t 0920 (was collon 12/10	ecte 6/09
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Sheet of Project Location **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum **Hawk Drilling Company** Not Available **Drilling Equipment** Drilling Method Date Started Date Finished Geoprobe **Direct Push** 11/12/09 11/12/09 Final Boring Depth Depth to Rock Sampler 4' acetate liner 10 ft Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial $\underline{\nabla}$ Completion _____ 24 Hours V Checked By **Drilling Foreman Brett Pierson** Catherine Fang Ben Alter Sample Data Depth Elev (ft) Remarks Sample Description (ft) 10 20 30 40 Loose brown fine to medium SAND, some brown 0 0 RUN-1 0 SB-137-3 was collected at 3' bg at 1015 0 0 0 0 RUN-2 SB-137-8C was collected at 8' 0 bg at 1020 0 10 0 13 15 16 17 18

ort: Log - NJ-GZA_GEOTECHNICAL ... Template 418.2, UNIMATIC ISRA CLOSUREIGINT112.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:54:46 AM ...

75400 TO 75

Sheet

of

2 1 Project Location 25 Sherwood Lane Unimatic Manufacturing Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Date Started **Date Finished** Drilling Equipment **Drilling Method Direct Push** 11/16/09 12/28/09 Power-probe Depth to Rock Final Boring Depth Sampler 32 ft 4' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Completion **Y** 24 Hours 🔽 Initial ∇ Depth (ft)
GZA Inspector Drilling Foreman Checked By Catherine Fang Ben Alter Brett, Steve & Bryan PID Reading (ppm) Sample Data N-Value (Blows/foot) Elev (ft) Depth Remarks Sample Description (ft) 0 FILL (non-native): loose grey medium to coarse SAND, cobbles, dry 0 INTS400 TO 75599N5418.2, UNIMATIC ISRA CLOSUREIGINTN12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:54:56 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT RUN-1 2 0 3 SB-138-3 was collected at 3' 0 bg at 1140 on 11/16/09 0 0 0 0 8 SB-138-8 was collected at 8' 0 Hard brown CLAY, wet bg at 1143 on 11/16/09 9 0 RUN-3 8 $\frac{9}{2}$ 10 0 0 12 0 Dense brown medium SAND, moist 13 0 RUN4 읪 24 0 15 0 SB-138-16C was collected at 16 0 16' bg at 1146 on 11/16/09 17 0 RUN-5 မြွ 36 18 0 19 0

Sheet 2

of

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Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Hawk Drilling Company Not Available Sample Data PID Reading (ppm) Depth (ft) Elev. (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 20 0 Hard brown CLAY, wet 21 0 RUN-6 36 22 0 23 0 24 SB-138A-24 was collected at 24' bg at 1350 on 12/28/09 0 Dense dark brown fine SAND, saturated 25 0 RUN-7 26 36 0 27 0 28 0 29 Ó RUN-8 30 0 31 0 32 SB-138A-32C was collected at 32' bg at 1355 on 12/28/09 0 33 34 35 36 37 38 39

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GZA GeoEnvironmental, Inc.

75400 TO 7

SB-139

Boring Log

GeoEnvironmental, Inc.

Sheet 1 of Location Project 25 Sherwood Lane Unimatic Manufacturing Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Drilling Method **Date Started** Date Finished **Drilling Equipment** 11/16/09 11/16/09 Geoprobe **Direct Push** Final Boring Depth Depth to Rock Sampler 20 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial ∇ 24 Hours V Completion T Depth (ft) GZA Inspector Checked By Drilling Foreman Ben Alter Andrew Huang **Brett Pierson** Sample Data PID Reading (ppm) MATERIAL Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description Gin) (ft) 0 FILL (non-native): organic material, sand, little gravel, dry 1 0 FILL (non-native): fine to medium Sand and 1,75400 TO 75599/75418.2; UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:55:03 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT gravel, dry 0 RUN-1 <u>8[]</u> 8 3 SB-139-3 was collected at 3' 0 bg at 1222 0 0 0 Clay, and fine Sand, moist 0 RUN-2 ဌ SB-139-8 was collected at 3' 0 bg at 1224 9 0 0 Clay, and fine Sand, saturated 11 0 Clay, dry 12 0 RUN-3 8 13 0 14 0 15 0 SB-139-16C was collected at 16 0 16' bg at 1225 0 စ 18 0 0

Boring Log SB-140

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Sheet

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Prince 12.0075418.20 Client Unimatic Manufacturing, Inc.	Project		natic Manufa	cturing				Location		25	Sherw	vood Lane		· · · · · · · · · · · · · · · · · · ·	
Diffing Equipment Geographs Driffing Method Driffing Method Driffing Method Driffing Method Driffing Method Driffing Method Geographs Sampler Affabrication Sampler Namer Weight (fibs) Drop (in) Sampler Namer Weight (fibs) Drop (in) Sampler Namer Weight (fibs) Drop (in) Sampler Namer Weight (fibs) Drop (in) Sampler Namer Namer Namer Weight (fibs) Drop (in) Sampler Namer Namer Namer Namer Namer Nam	Project N	10		·			, . .	Client	·		•				
Deling Equipment Geoprobe Orling Method Direct Push Date Stated 11/16/09 Date Fine Road 11/16/09 11/16/	Drilling C	omnonu		mpany		· '·		Elevation ar	nd Date						· ·
Sample Fremen Weight (Ba) Doe (in) Sample Description Doe (in) Sample Description Doe (in) FILL (non-native): loose coarse Sandy Gravel, dry Doe (in) Fill (non-native): loose coarse Sandy Gravel, dry Doe (in) Doe (i	Drilling E			Drilling Method	Direct I	Push		Date Starte	d				ate Finished	11/16/09	
Sample Pierson Destin (No.) This Sample Description Sample Description Sample Description FILL (non-native): loose coarse Sandy Gravel, dry File SAND and Clay, dry Fine SAND and Clay, saturated O Sample Description O Fild (non-native): loose coarse Sandy Gravel, dry Sample Description O Sample Description O Fild (non-native): loose coarse Sandy Gravel, dry Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description O Sample Description	Sampler							Final Boring	Depti	1	,		epth to Rock	. •	
Delining Foreithan Brott Pierson Sample Description Fill. (non-native): loose coarse Sandy Gravel, dry Fill. (non-native): loose coarse Sandy Gravel, dry Fine SAND and Clay, dry Fine SAND and Clay, saturated Think SA	Sampler	Hammer	N	Veight (lbs)		Drop (in)	· -	Groundwate	er	Ini			pletion	_ 24 Hours 🔻	
Sample Description Sample Description Fill. (non-native): toose coarse Sandy Gravel, dry Fill. (non-native): toose coarse Sandy Gravel, dry Fine SAND and Clay, dry Fine SAND and Clay, saturated The SAND and Clay, saturated and saturated and saturated and saturated and saturated and saturated and saturated and saturated and saturated and saturated and saturated and saturated and saturated	Drilling Fo	oreman Brett	Pierson					GZA Inspec	tor			101			
Fill. (non-native): loose coarse Sandy Gravel, dry 1		<u> </u>	1 1010011		,	ξ		ـ ا		S	ample D	ata		DONTAROI	
Fill. (non-native): loose coarse Sandy Gravel, dry 1	(ft)		Sample De	escription	•	PID Read		MATER! SYMBO	Number	Type Recov.	Penetr. resist Bl/6in			Remarks	
10 Fine SAND and Clay, dry 0 0 0 0 0 0 0 0 0	E° ∃	FILL (non-na	itive): loose co	oarse Sandy G	ravel, dry	y									
Fine SAND and Clay, dry - 5 6	2 7							2	RUN-1	GP 18 11 11 11 11 11 11 11 11 11 11 11 11					
SB-140-16C was collected at 16' bg at 1322	3 7														1
SB-140-8 was collected at 8' bg at 1320 SB-140-16C was collected at 16' bg at 1322 SB-140-16C was collect	[]	Fine SAND a	and Clay, dry	,		0	1 1								
SB-140-16C was collected at 16 bg at 1322 SB-140-16C was colle	F 5 -			1 .		١									
0	F 3		• •			"							1		
0	6 -								3	કે[] ક				-	
SB-140-8 was collected at 8' bg at 1320 SB-140-8 was collected at 8' bg at 1320 SB-140-16C was collected at 16' bg at 1322									~						
bg at 1320 Fine SAND and Clay, saturated Think SAND and Clay	F 7 🗄					o									
bg at 1320 Fine SAND and Clay, saturated Think SAND and Clay	Ė i		,		,	· '									
10 Fine SAND and Clay, saturated 0 0 0 0 0 0 0 0 0	F 8 -]					0			$\vdash \vdash$	-	 		SB-140	-8 was collected a	at 8'
Tine SAND and Clay, saturated 11 12 13 14 15 16 17 18 19 10 Fine SAND and Clay, saturated 0 0 17 18 19 10 10 10 10 10 10 10 10 10	F = 3				7.	1]	M			bg at 13	320	
11 - 12 - 13 - 1	F°3		•		•	0				N					
11 - 12 - 13 - 1	<u> </u>					\forall			12	√ ∥ -				•	
11 - 12 - 13 - 1	F" 🖥	Fine SAND a	ind Clay, satu	rated		0			2	ي ااچ]	Maria de la companya			٠.
12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 19 - 19	E 11 3	ı			:					N					
13 - 14 - 15 - 16 - 16 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 18 - 19 - 19	E				1 *	0				N					
13 - 14 - 15 - 16 - 16 - 17 - 18 - 19 - 19 - 19 - 19 - 19 - 18 - 19 - 19	E 12 3		,	. * · · ·					Ш		$oxed{oxed}$				
14 - 15 - 16 - 17 - 18 - 19 - 19 - 19 - 19 - 18 - 19 - 19	F = 1				.*	. "									
14 - 15 - 16 - 17 - 18 - 19 - 19 - 19 - 19 - 18 - 19 - 19	- 13														
16	‡					"]].		4			.			
16	F 14 🚽				F	ò			38	₽[] &	.		1		
SB-140-16C was collected at 16' bg at 1322	‡ ‡	-							₩.		.]		İ.		
16 SB-140-16C was collected at 16' bg at 1322	F 15 -	•				0									
- 18 19 19	E 🖠			•						N					
16' bg at 1322	F 16 🚽					- ₀		<u> </u>		4	\vdash		SB-140-	16C was collected	d at
- 18 - - 19 -	E 3												16' bg a	t 1322	
- 19 -	F 17 🖥														
- 19 -	E 3			· ·	•	İ							Ī		
	F 18 →									1.					
	[]				•			.							•
	F 19 -		•			.						-			
	E ₂₀ _1										:			5.	:

ort: Log - NJ-GZA_GEOTECHNICAL ...Template 418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:55:08 AM ...

Boring Log SB-141

GZA GeoEnvironmental, Inc.

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Drilling Comp	nawk Dhilling Company		Elevation and		um 1	Not Avail	able	Date Finished	
Drilling Equip	ment Geoprobe Drilling Method Direct Pu	Date Started	11/13/09						
Sampler	4' acetate liner	on (in)	Final Boring I Groundwater	-		16 ft	1	Depth to Rock	<u>-</u>
Sampler Ham		op (in)	Depth (ft) GZA Inspect			Initial <u>V</u>	- '-	mpletion Checked By	24 Hours <u>V</u>
Drilling Foren	Brett Pierson	Ta T T	1		<u></u>	atherine Sample Da	Fang	1	Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	(t) WATERIAL SYMBOL	Number	Туре	Recov. (in) Penetr. resist Bl/6in	N-Value (Blows/foo	4)	Remarks
1 1 1	FILL (non-native): loose grey fine to medium Sand, some asphalt, little Silt, little coarse Gravels dry	0							•
2 -		0		RUN-1	d5	2			
3 -		0 .							
E 3'	Loose brown fine to medium SAND, some Cobbles, little Silt, dry	0		4-2	P	4			÷
- 6 - - 7 -		0 0		RUN-2	GP	24			
8		0			11/11/11			SB-14 bg at 1	I-8 was collected a 320
9 -	Loose brown Silt, little coarse Gravels, dry	0		RUN-3	GP M	24			
11 -	LOUIS BIOWIT CIRC, ILLIC SCALES CITATION, G.Y.	0		α.					
12 -		0							
12 13 14 15 16 17 18 19 19 19 19 19 19 19		0		RUN4	GP	48			
15 -		0				-	Property Company and the compa	SR-14	1-16C was collect
17 -								16' bg	at 1330
18 -									

Sheet

of 2

Project	Unimatic Manufacturing		Location	٠.	25	Sherwoo	od Lane	
Project N	No. 12.0075418.20		Client		Uni			uring, Inc.
Drilling C	Hawk Drilling Company		Elevation an		m Not	Availab	le	
	quipment Geoprobe/HSA Drilling Method Direct Push	1/HSA	Date Started		11/	18/09		te Finished 12/4/09
Sampler	4 acetate liner		Final Boring		· -	30 ft	,	pth to Rock 30 ft
Drilling F	Hammer Weight (lbs) Drop	` -	Groundwate Depth (ft) GZA Inspect			al <u>∇</u> 2	TOP-	ecked By
Drinning r	Brett & 1000	GEA Irispeci	J1		nerine Fa	ang	Ben Alter	
Depth (ft)	Sample Description	PID Reading (ppm)	lev. (tt) (tt) SYMBOL	Number	Recov.		N-Value Blows/foot) 0 20 30 40	Remarks
	FILL (non-native): gravel, asphalt, medium to coarse Sand, dry					,		
1 -	ocardo Gario, di y	0				- Policy of the second	ile a i se disim mistilla malama.	
2 -		0		NO.	8 1			
3		0						SB-142-3 was collected at 3' bg at 1150 on 11/18/09
4 -	Loose brown medium to coarse SAND, some coarse Gravel, dry	0	*****	\dashv				
5 -		0		2		Aban ala ara ara ara ara ara ara ara ara ara		
6 -		0		RUN-2	38	A COMMENT OF A COM		
7 -		0				,		
- 8 - - -	Loose brown fine to medium SAND, some brown Silt, dry	0						
9		0		6				
- 10 -		0		RUN-3	48	-		
- 11 -		.0				and the second		
12		0						
- 13 -		0		4		-		
- 14 -		0		RUN4	\$	į		
15		0						
16		0				-	TABLE OF STREET, SPECIAL SPACE	:
- 17 -		0		2				
18 -		0 .		RUN-5	24			
19		0						

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5418.2, UNIMATIC ISRA CLOSUREIGINT112.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:55:19 AM ..

SB-142 Boring Log

Sheet

2

2 of Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available Hawk Drilling Company Sample Data Elev (ft) N-Value (Blows/foot) Depth Remarks **Sample Description** (ft) 20 Hard brown CLAY, some brown Sand, wet 0 21 0 RUN-6 ᆼ 8 22 0 23 0 SB-142-24 was collected at 24' 0 Hard brown Silty CLAY, some Gravel, wet bg at 1155 on 11/18/09 RUN-7 AUGER 24 25 0 26 0 RUN-8 8 27 0 28 0 Dense brown medium to coarse brown SAND, and rocks, saturated RUN-9 AUGER 48 SB-142-29 was collected at 24 bg at 1050 on 12/04/09 29 0 30 0 31 32 33 34 35 36 37 38 39 40

J.Y5400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINTY 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:55:20 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template

GeoEnvironmental, Inc.

Boring Log SB-143

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of

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Project	Unimatic Manufacturing				Location		2	5 Sherv	vood La	ne	
Project N	^{No.} 12.0075418.20		,	:	Client						uring, Inc.
Drilling C	Company Hawk Drilling Company				Elevation an	d Da		ot Avai			
Drilling E	Equipment Geoprobe Drilling Method	Direct	Push	•	Date Started	1		1/13/09		Da	te Finished 11/13/09
Sampler	4' acetate liner				Final Boring	Dept		25 fl	• •	De	oth to Rock
Sampler	Hammer Weight (lbs)		Drop (in)		Groundwate Depth (ft)	r	1	nitial 🔽		omp	eletion 🔻 _ 24 Hours 🔻 _
Drilling F	Foreman Brett Pierson		'	•	GZA Inspect	tor		therine		Ch	ecked By Ben Alter
			g		ب ا			Sample D	ata	<u>. </u>	
Depth (ft)	Sample Description		PID Reading (ppm)		Elev. (ft) (ft) (ht)	Number	Type	(in) Penetr. resist BI/6in	N-Valu (Blows/fo 10 20 30		Remarks
F " :	FILL (non-native): asphalt, gravel, some medium to coarse sand, dry	brown									,
E 1 -	modelm to coance cance, and		0								
E :			"		****			. '			
- 2 -						_					·
						RUN-1	B() 9	걸 .			
3 -			0		- XXX	œ					SB-143-3 was collected at 3'
† =	1	•									bg at 1500
F 4 =			0								**
E :					*****						• ,
- 5 -		•	0		- XXXX				1	1	
E					****						
F 6 -	;		0							-	
 					*****		N				
F / 3			0			2	aN.	42			
E , :		`,		1 1	- XXXX	RUN-2	B] 3	×			
F ° 3			0		*****						
- 9 -	·										
E :			0.		*****			İ			
- 10 -	Loose brown fine to medium SAND, som	o Crovo			<u> </u>						
	dry	ie Grave	" "			ŀ					
F 11 -			0								
‡ :										ŀ	
12 -		•	0			6.					
Ė :						RUN-3	6	3		. !	
- 13 -	Dense brown SILT, little Gravel, wet	· · · · · · · · · · · · · · · · · · ·	<u>-</u> ¥ ₀		•••••	<u> </u>					
E . :					·						,
- 14 -			0								
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15 -			0		<u> </u>		N				
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- 16 -		. •	0				N				
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ŧ '' =			0			RUN-4	ہ الم	8			
18 -						2	9	9			
E =			0		<u> </u>						
19 -		* * :					N				
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75400 TO 7

5418.2, UNIMATIC ISRA CLOSUREIGINT112.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:55:26 AM

SB-143 Boring Log

GZA GeoEnvironmental, Inc. Sheet 2 of 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth (ft) Remarks Number **Sample Description** Type 20 21 0 22 0 RUN-5 8 ဗြ 23 0 IN75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:55:28 AM ... Report. Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GOT TETT TOTAL 24 SB-143-24 was collected at 24' 0 bg at 1510 25 0 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Sheet 1

of

2 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Drilling Method Date Started Date Finished **Drilling Equipment** Geoprobe/HSA Direct Push/HSA 11/17/09 12/1/09 Sampler Final Boring Depth Depth to Rock 4' acetate liner&1.5" split spoon 32 ft 32 ft Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) 24 Hours 🔻 Initial 🔽 Completion <u></u> 20 Drilling Foreman Checked By Catherine Fang Ben Alter **Brett & Todd** Sample Data PID Reading (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Sample Description Remarks 0 FILL (native): loose darkbrown medium to coarse Sand, some Gravel, dry FILL (native): loose dark brown fine to medium 0 Sand, little brown Silt, dry 2 0 RUN-1 3 0 0 0 Ö 0 RUN-2 0 0 Loose brown fine to medium SAND, some brown 0 Silt, dry 0 0 녱 12 0 0 Loose brown fine to medium SAND, some brown 0 Silt, little coarse Gravel, dry 0 0 RUN-4 18 0 0

GeoEnvironmental, Inc.

SB-144 Boring Log

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GeoEnvironmental, Inc.

2 Sheet Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available Sample Data N-Value (Blows/foot) Elev (ft) Depth (ft) Remarks **Sample Description** 20 Loose brown fine to medium SAND, some brown Silt, little coarse Gravel, wet 21 0 22 0 23 0 24 0 Loose red brown fine to medium SAND, little Silt, 0 26 SB-144-26 was collected at 26' 0 Stiff brown CLAY, some Gravel, dry bg at 1020 on 11/17/09 RUN-7 27 0 28 0 RUN-8 24 29 0 30 0 RUN-9 31 0 SB-144-32C was collected at 32' bg at 1540 on 12/01/09 32 0 33 34 35 36 37 38 39

J.75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:55:39 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template

SB-145 Boring Log

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. 1	Projec	Unimatic Manufacturing	•		Location			25	Sherv	vood L	ane			
	Projec	12.0075418.20	Client Unimatic Manufacturing, Inc.											
		Company Hawk Drilling Company	Elevation and Datum Not Available											
		Equipment Geoprobe/HSA Drilling Method Direct Pusl									12/2/09			
	Sampl	5 acetate linera i.5 split spoon			Final Boring		oth 		36 ft			epth to Rock	36 ft	
		• •	(in)		Groundwat Depth (ft)	er			ial <u>V</u>			pletion <u> </u>	_ 24 Hours <u>\</u>	
	Drilling	Foreman Brett & Todd			GZA Inspe	ctor		Cath	erine	& Sar	de	hecked By 9D	Ben Alter	
į	Depti (ft)		PID Reading (ppm)		MATERIAL SYMBOL	Number	·	Sa	Penetr. resist Bl/6in Quinties	Ata N-Val (Błows/	ue foot)		Remarks	
	- 0	FILL (native): loose dark brown medium to coarse Sand, some coarse Gravel, dry				8					Ĭ	1.		
	. 1	Cand, some warse draver, dry	0											
	2		0			RUN-1	Gb	24						
rt: Log -	3		0			8								
0 5:08:14 PM Report: Log	5		0			8								
510 5:08:14	6		0											
. 9 е	7		0			RUN-2	GP	18			THE RESERVE THE PROPERTY OF TH			
GS/12.0075418.20_BORING LOGS.GPJ	8		0			2000								
20_BOF	1		0											
0075418	- 10 -	FILL (non-native): loose yellow fine to medium SAND, dry	0											
	- 11		0						,					
NG&WELL	- 12 - - 13		o`			RUN-3	GP	9					•	
CLOSUREISOIL BORING&WELL LO LATE.GDT	- 14		0											
CLOSURE	15	Loose red brown fine to medium SAND, some	. 0					-				·		
AATIC ISRA (16	brown Silt, dry	0.											
418.2, UNIIA	17		0			RUN 4	GB	36						٠
O 7 EOTECHNI	18		0											
J:\75400 TO NJ-GZA GE	- 19 - - - - 20	Loose red brown medium to coarse SAND, some coarse Gravel, dry	0			RUN-SI	GP	72						

SB-145 Boring Log

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of

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2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Hawk Drilling Company **Not Available** Sample Data N-Value (Blows/foot) Elev (ft) Depth Remarks **Sample Description** (ft) 20 Ō 21 0 RUN-5 24 22 0 23 Loose red brown medium to coarse SAND, some 0 coarse Gravel, wet J:\75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:55:47 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 24 SB-145-24 was collected at 24' bg at 0940 at 11/17/09 0 RUN-6 g 25 0 26 0 27 0 RUN-7 AUGER 2 28 0 29 0 RUN-8 AUGER 8 30 0 31 0 RUN-9 AUGER 8 32 0 33 0 **RUN-10** AUGER 18 34 0 35 0 NON-11 E GE 2 SB-145-36 was collected at 36' bg at 1110 at 12/02/09 36 0 37 38 39 40

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GZA GeoEnvironmental, Inc.

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Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Drilling Method **Drilling Equipment** Date Started Date Finished Power-probe **Direct Push** 11/16/09 12/29/09 Final Boring Depth Depth to Rock Sampler 35 ft 5' acetate liner 35 ft Sampler Hammer Weight (lbs) Groundwater Drop (in) Initial 🔽 Completion _____ 24 Hours 🔽 Depth (ft) GZA Inspector **Drilling Foreman** Checked By Steve & Bryan Andrew Ben Alter PID Reading (ppm) Sample Data Depth Elev N-Value (Blows/foot) Sample Description Remarks (ft) (ft) 0 FILL (non-native): brown coarse Sand and Gravel, 0 2 0 RUN-1 မြ 3 0 0 0 0 18.2. UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/7.3/L...Template TEMPLATE.GDT RUN-2 FILL (native): brown fine SAND, moist 0 **₽**[] 8 0 Brown sandy GRAVEL and silt, dry 0 10 0 Brown CLAY and gravel, dry 0 12 0 RUN-3 9 13 0 SB-146-14 was collected at 14' 0 bg at 1431 on 11/16/09 15 0 16 0 17 0 RUN4 6 42 18 0 19 0

0 4:25:52 PM ... Report: Log -

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GZA GeoEnvironmental, Inc.

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of

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Not Available Hawk Drilling Company Sample Data PID Reading (ppm) ⊟ev (ft) N-Value (Blows/foot) Remarks Depth Sample Description (ft) SB-146-20 was collected at 20' 20 0 bg at 1433 on 11/16/09 21 0 22 RUN-5 0 မြ 84 23 0 24 0 25 0 Brown CLAY and gravel, wet J.75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS\GPJ ... 6/19/2010 4:25:53 PM ... Report: Log - NJ-GZA_GEOTECHNICAL ... Template TEMPLATE.GDT 26 0 27 0 RUN-6 <u>B</u> 8 SB-146-28 was collected at 28' bg at 1435 on 11/16/09 28 0 29 Medium dense brown fine to medium SAND, 0 rocks, saturated 30 0 31 0 32 0 RUN-1 8 33 0 34 0 SB-146A-35 was collected at 35 0 35' bg at 1135 on 12/29/09 36 37 38 39 40

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of

Project	Unimatic Manufacturing				_1_	ocation		2	5 Sherv	vood Lane	9
Project No	12.00/5418.20					Client			nimatic	Manufac	turing, Inc.
Drilling Co	Hawk Unling Company				- 1	levation and		. IN	ot Avai	lable	· ·
Drilling Ed	quipment Power-probe Drilling Method Direct	t Pus	:h		C	Date Started		,	1/11/09		Pate Finished 3/9/10
Sampler	5' acetate liner				F	inal Boring C	Dept		15 ft		Pepth to Rock
Sampler I	Hammer Weight (lbs)	Dro	p (in)		ļ	Froundwater	•	Ti	nitial <u></u>		npletion 24 Hours V
Drilling Fo	Dreman Brett, Steve & Andrew					Depth (ft) SZA Inspecto	or		atherine	· · · · · · · · · · · · · · · · · · ·	Checked By Ben Alter
	biett, Steve & Andrew		8		┌┸				Sample D		Dell Altei
Depth (ft)	Sample Description	. ,	PID Reading (ppm)		Elev (ft)	MATERIAL	Number		(in) Penetr. resist Bl/6in	NA/olyo	
	FILL (native): Gravel, asphalt, dry		0.			******					
1 =	•					******			1		
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GeoEnvironmental, Inc.

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1 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum Drilling Company Not Available Hawk Drilling Company Date Started Date Finished Drilling Equipment **Drilling Method** 3/9/10 **Direct Push** 11/11/09 Power-probe Depth to Rock Final Boring Depth Sampler 15 ft 5' acetate liner Groundwater Weight (lbs) Drop (in) Sampler Hammer Initial ∇ 24 Hours V Completion T Depth (ft)
GZA Inspector Checked By Drilling Foreman Ben Alter Catherine Fang Brett, Steve & Andrew Sample Data PID Reading (ppm) Elev Depth Remarks Sample Description (Blows/foot) (ft) (ft) 10 20 30 40 0 FILL (native): asphalt, Gravel, dark brown fine to medium Sand, dry 1 0 SB-148-2 was collected at 2' 2 0 RUN-1 bg at 1335 on 11/11/09 24 ဗ 3 0 SB-148-4C was collected at 4' 0 bg at 1340 on 11/11/09 0 0 0 RUN-2 9 SB-148A-8 was collected at 8' 8 0 FILL (non-native): Loose brown fine to medium bg at 1500 on 03/09/10 Sand, dry 9 0 0 0 SB-148A-12 was collected at 12 0 RUN-3 Brown SILT, dry 12' bg at 1503 on 03/09/10 હિ 13 0 0 0 16 17 18

GeoEnvironmental, Inc.

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1 of Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum **Hawk Drilling Company** Not Available **Drilling Equipment Drilling Method Date Started** Date Finished **Direct Push** 11/11/09 Power-probe 3/9/10 Final Boring Depth Depth to Rock Sampler 15 ft 5' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial ablaCompletion \(\bar{\pi}\) 24 Hours V Depth (ft) GZA Inspector **Drilling Foreman** Checked By Ben Alter Brett, Steve & Andrew Catherine Fang PID Reading (ppm) Sample Data Depth N-Value (Blows/foot) Remarks Sample Description (ft) (ft) 10 20 30 40 0 FILL (native): asphalt, Gravel, brown Silty Sand, Ô 1 0 2 SB-149-2 was collected at 2' 0 RUN-1 36 bg at 1345 on 11/11/09 3 0 SB-149-4C was collected at 4' 0 bg at 1350 on 11/11/09 0 Hard brown CLAY, dry 0 RUN-2 8 24 8 SB-149A-8 was collected at 8' 0 bg at 1555 on 03/09/10 0. Stiff brown CLAY, dry 0 0 12 0 RUN-3 SB-149A-12 was collected at 6 8 12' bg at 1600 on 03/09/10 13 0 14 0 15 16 17 18 19

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Sheet 1

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Date Finished Drilling Method **Date Started** Drilling Equipment 11/11/09 3/9/10 Power-probe **Direct Push** Final Boring Depth Depth to Rock Sampler 15 ft 5' acetate liner Groundwater Drop (in) 24 Hours 🔽 Sampler Hammer Initial 🔽 Completion T Depth (ft) GZA Inspector Checked By **Drilling Foreman** Catherine Fang Ben Alter Brett, Steve & Andrew Sample Data PID Reading (ppm) Elev (ft) Depth N-Value (Blows/foot) Remarks Sample Description Type (ft) 0 FILL (native): asphalt, dark brown coarse silty Sand, dry 0 SB-150-2 was collected at 2' 2 0 RUN-1 bg at 1400 on 11/11/09 36 3 0 SB-150-4C was collected at 4' 0 bg at 1410 on 11/11/09 5 0 0 0 9 SB-150A-8 was collected at 8' 0 FILL (non-native): Loose brown medium Sand, dry bg at 1512 on 03/09/10 9 0 0 Hard brown CLAY, wet 0 SB-150A-12 was collected at 12 RUN-3 0 8 12' bg at 1515 on 03/09/10 8 13 0 0 15 Ö 16 17 18

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Orilling E	quipment Geoprobe/HSA Dr	dilling & fathard	ect Pus	h/HS	A	Date Starte	d		/19/09		Date Finished	12/3/09	
Sampler	4' acetate liner			· · · · · ·		Final Boring	Depth	1	38 fi		Depth to Rock	38 ft	
ampler	Hammer Weig	ht (lbs)	Dro	p (in)	_	Groundwate Depth (ft)	er	Ini	tial 🔽		Completion	_ 24 Hours \	<u> </u>
rilling F	Brett & Todd	*	!-			GZA Inspec	ctor	Cat	herine	Fang	Checked By	Ben Alter	<u> </u>
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Sheet 2 of 2

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Not Available Hawk Drilling Company Sample Data N-Value (Blows/foot) Elev (ft) Remarks Depth Sample Description 20 Medium dense brown fine to medium SAND, wet 0 21 0 RUN-6 22 0 23 0 UNS400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/GINTN2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:56:45 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE: GDT TEMPLATE: GDT 24 0 25 0 RUN-7 8 8 26 0 27 0 28 0 29 0 Medium dense brown medium to coarse SAND, some brown Gravel, saturated RUN-8 G) 8 30 0 31 0 32 0 33 0 RUN-9 g) 5 34 0 35 0 36 0 **RUN-10** 8 37 0 SB-151-38 was collected at 38' bg at 1410 on 12/03/09 38 0 39 40

GZA GeoEnvironmental, Inc.

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ler Hammer	_ v	Veight (lbs)		Orop (in)		Gr	roundwate epth (ft)	r	T	Initia	ı V	16	Comp	oletion 🕎		24 Hours 🕎	<u>-</u>
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GeoEnvironmental, Inc.

Sheet 2 of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Sample Data PID Readin (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description 20 0 Medium dense brown fine to medium SAND, saturated 21 0 RUN-6 ဗ၂၂ 22 0 23 0 JY75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINTY 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:56:54 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 24 0 AUGER RUN-7 2 25 0 26 0 RUN-8 ឧ 27 0 28 0 RUN-9 <u>∞</u> 29 0 Medium dense brown fine SAND, saturated 30 0 RUN-10 AUGER 31 0 32 0 RUN-11 AUGER 33 0 34 0 **RUN-12** 양 24 35 0 SB-152-36 was collected at 36' 36 0 bg at 1215 on 12/02/09 37 38 39

Boring Log

Sheet

of 2

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Drilling Method Date Started Date Finished **Drilling Equipment** 12/3/09 Air/auger rig **HSA** 12/3/09 Depth to Rock Sampler Final Boring Depth 32 ft 32 ft 1.5" split spoon Groundwater Weight (lbs) Drop (in) Sampler Hammer Completion **T** 24 Hours 🕎 Initial 🔽 Depth (ft) GZA Inspector Drilling Foreman Checked By Catherine Fang Ben Alter Todd Sample Data PID Readin (ppm) Depth (ft) Elev N-Value (Blows/foot) Remarks Sample Description (ft) FILL (native): loose brown coarse Gravel, brick, 0 FILL (native): loose brown coarse Gravel, some 0 loose yellow fine to medium Sand, brick, dry 2 0 0 0 0 RUN-2 24 0 418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/ ICAL ...Template TEMPLATE.GDT 0 FILL (non-native): medium dense brown medium Sand, dry 0 0 RUN-3 32 0 Hard brown CLAY, moist 0 Loose red brown medium to coarse SAND, dry 0 13 0 RUN4 ဌ 0 15 0 16 0 Medium dense brown medium to coarse SAND, some brown Gravel, wet at 18' bg 17 0 88 밍 0 0

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SB-153 Boring Log

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of 2 Location Project **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Not Available **Hawk Drilling Company** Sample Data Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 20 0 Medium dense brown medium to coarse SAND, saturated 21 0 RUN-6 9 8 22 0 23 0 24 0 25 0 RUN-7 9 8 26 0 27 0 28 0 29 Ó. RUN-8 30 0 31 0 32 SB-153-32 was collected at 32' 0 bg at 1140 33 34 35 36 37 38 39

Boring Log

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Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Hawk Drilling Company
Drilling Method Not Available **Drilling Equipment** Date Started Date Finished HSA Air/auger rig 12/2/09 12/2/09 Sampler Final Boring Depth Depth to Rock 4' acetate liner 37 ft Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial $\underline{\underline{\nabla}}$ Completion _____ 24 Hours 💆 Depth (ft) GZA Inspector Drilling Foreman Checked By Todd Sandeep Singh Ben Alter Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 0 FILL: brown f-m Sand, Cobbles, plastics, construction debris, dry, loosely packed 0 RUN-1 믮 0 3 0 Dark brown f-m SAND, some Cobbles, trace Fill, 0 dry, loosely packed 0 RUN-2 6 ဗ 0 Dark brown m-c SAND, some SILT, moist 0 0 0 RUN-3 10 24 O 0 12 0 13 0 RUN4 0 15 0 16 0 17 18 3 [6] 0 19 0

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GeoEnvironmental, Inc.

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GZA GeoEnvironmental, Inc.

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		Hawk Drilling Company quipment Air/augus rig Drilling Method HSA			- 1	Elevation and		tum	Not	Avail	able	-			
Dril	ling E	quipment Air/auger rig Drilling Method HSA			- 1	Date Started			12	/2/09		- 1	te Finished	12/2/09	
- 1	npler	4' acetate liner				Final Boring		h		36 ft		Dе	pth to Rock	, , , , , , , , , , , , , , , , , , , ,	
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GZA GeoEnvironmental, Inc.

Sheet 2 of 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Sample Data PID Readin (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description 20 Dark brown f-m SAND, little brown Gravel, 0 saturated 21 0 RUN-6 84 22 0 23 0 J.Y5400 TO 75599075418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:57:17 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template 24 0 25 0 RUN-7 84 26 0 27 0 Dark brown m SAND, some Clay, saturated 28 0 29 0 RUN-8 8 30 0 31 0 32 0 33 0 Red brown f clayey SAND 84 34 0 35 0 SB-156-36 was collected at 35.5-36.0' bg at 1700 36 0 37 38 39

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roject	Unimatic Manufac	turing	<u>,</u>		· · ·	Location		. 2	25 Sherv	ood Lan	e Sileet	1 OI
roject No.	12.0075418.20					Client					cturing, Inc.	
rilling Compa	ny Hawk Drilling Com	npany	.:			Elevation an	d Da		Not Avail	able	,	
rilling Equipm	Geoprobe	Delling Mothed	ct Pus	:h		Date Started	1		12/16/09		Date Finished	12/16/09
ampler	4' acetate liner					Final Boring	Dept	h	12 ft		Depth to Rock	-
ampler Hamn		eight (lbs)	Dro	p (in)		Groundwate	r	T	Initial 🔽		mpletion	_ 24 Hours
illing Forema	n Brett Pierson					Depth (ft) GZA Inspect	or		atherine	· '- 1,	Checked By	Ben Alter
	Biote i icison			g		ر اد			Sample D	ata	<u> </u>	DOM 7 III.QI
Depth (ft)	Sample Des	•		PID Reading (ppm)	(E	(J. SAMBOL	Number	Туре	Hecov. (in) Penetr. resist Bl/6in	N-Value (Blows/fool	· ·	Remarks
O J M	edium dense brown SILT, coarse Sand, dry	, some brown medic	ım			Ī						
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~ ‡				0				N			SB-157 bg at 12	-3 was collected a 240
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. + <u>W</u>	edium dense brown medit eenish powder-like soil, di	um to coarse SAND),	0				1				
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8 Tc	ose brown medium to coa	arse SAND, dry		80.0				N	11		SB-157	-8 was collected a
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7/75400 TO 7 418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:57:22 AM ...

SB-158 Boring Log

Sheet 1 of Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum Drilling Company Not Available **Hawk Drilling Company** Date Finished **Drilling Equipment** Drilling Method Date Started **Direct Push** 12/16/09 12/16/09 Geoprobe Depth to Rock Final Boring Depth Sampler 12 ft 4' acetate liner Groundwater Weight (lbs) Drop (in) Sampler Hammer Completion <u></u> 24 Hours 🔽 Initial 🔽 Depth (ft)
GZA Inspector Drilling Foreman Checked By Ben Alter Catherine Fang **Brett Pierson** Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev (ft) Depth Remarks Sample Description (ii) (ft) 0 Loose brown fine to coarse SAND, some grey coarse Gravel, dry 1 0 J.Y35400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:57:26 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT ტ 2 0 3 SB-158-3 was collected at 3' 0 bg at 1140 0 0 RUN-2 Ф 0 0 SB-158-8 was collected at 8' 0 bg at 1145 0 24 10 0 11 0 SB-158-12C was collected at 12 0 12' bg at 1150 13 14 15 16 17 18

GZA

Sheet

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Project			· · · · · · · · · · · · · · · · · · ·		11	ocation							Officer		· · · · · · · · · · · · · · · · · · ·
	ta .	Unimatic Manufacturing		· ·				•	25	Sherv	ood L	ane		. ;	
Project N		12.0075418.20		·		lient		···	Uni	matic	Manu	act	uring, Inc.	,	
	ompany	Hawk Drilling Company	•			levation and		tum	Not	Avail	able				
Drilling E	quipment	Geoprobe Drilling M	ethod Direct Pusi	h ·	70	ate Started				16/09		Da	ite Finished	12/16/09	
Sampler		4' acetate liner			F	inal Boring	Dep	th		12 ft		De	epth to Rock		
Sampler	Hammer	Weight (lbs)	Droj	p (in)	G	roundwater	r		Initi	ial <u>V</u>		Com	pletion <u></u>	_ 24 Hours	T
Drilling F	oreman				- B	Groundwater Depth (ft) GZA Inspect	or						and Dr		 -
	· · · ·	Brett Pierson							<i>Satr</i>	mple D	Fang			Ben Alter	•
Depth (ft)		Sample Description	n	PID Reading (ppm)	Elev (ft)	MATERIAL	Number	Type		Penetr. resist	N-Val (Blows/1			Remarks	
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400 TO 7

GZA GeoEnvironmental, Inc.

Sheet"

of

1

Drilling Co	Hawk Drilling Company	sh	Date Starte				Avail: 16/09		Date Finished 12/16/09
Sampler Sampler I	4' acetate liner Hammer Weight (lbs) Dro	op (in)	Final Boring Groundwate		<u> </u>	r: .	16 ft		Depth to Rock
Drilling Fo	roman	~ \""" <u>-</u>	Depth (ft) GZA Inspec	tor		<u> </u>	al <u>V</u>		Checked By Don Alton
- 	Brett Pierson	<u>g</u>		<u> </u>		atn Sai	enne nple Da	Fang	Ben Alter
Depth (ft)	Sample Description	PID Reading (ppm)	(tt) (The state of the state of	Number	Type	Recov.	Penetr. resist Bl/6in	N-Value (Blows/foo	ot) Nettiaiks
· •	Loose brown fine to medium SAND, some grey coarse Gravel, dry								
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- 6 -		0 .		RUN-2	GP	24			
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12	Loose brown fine SAND, dry	0		_					
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								1910	16' bg at 1035
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t 1				1 .					-

SB-161

GZA GeoEnvironmental, Inc.

418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ.... 6/14/2010 11:57:40 AM ...

Sheet 1 of 1

· //	-			Location				Sheet 1	of 1
Project No.	Unimatic Manufact	uring		Client		25 Sherw			
roject No.	12.0075418.20	••	 	Elevation an	d Datum			turing, Inc.	
rilling Equipment	Hawk Drilling Com	N. 1111 N. 4		Date Started		Not Availa	able D	ate Finished	
ampler	Geoprobe	Direct F	Push	Final Boring		12/16/09		epth to Rock	2/16/09
ampler Hammer	4' acetate liner	ight (lbs)	Drop (in)	Groundwate		16 ft Initial <u>∇</u>	;	pletion <u> </u>	24 Hours 🕎
rilling Foreman	<u> </u>		· · · · · · · ·	Depth (ft) GZA Inspec			- ' 1 C	Lastrad Du	
	Brett Pierson		Te T	1 , 	<u> </u>	Catherine Sample Da	rang j ta	B6	n Alter
Depth (ft)	Sample Des		PID Reading (ppm)	(tt) (valerial symbol.	Number	Recov. (in) Penetr resist Bl/6in	N-Value (Blows/foot) 10 20 30 40		emarks
0 Loose	e brown fine SAND, dry	/				1			,
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Boring Log

SB-162

Sheet

of

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Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Date Started Date Finished Drilling Equipment **Drilling Method Direct Push** 12/16/09 12/16/09 Geoprobe Final Boring Depth Depth to Rock Sampler 16 ft 4' acetate liner Sampler Hammer Groundwater Weight (lbs) Drop (in) 24 Hours V Initial 🔽 Completion **Y** Depth (ft)
GZA Inspector Drilling Foreman Checked By Ben Alter **Brett Pierson** Catherine Fang PID Reading (ppm) Sample Data MATERIAL Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description Type (ft) 0 Loose brown fine SAND, dry 1 0 g S 2 SB-162-2 was collected at 2' 0 bg at 1050 3 0 0 0 RUN-2 읪 0 0 SB-162-8 was collected at 8' 0 bg at 1055 0 38 ଧ 10 0 11 0 12 0 Medium dense brown Silt, dry 13 0 RUN4 42 14 0 15 Ó SB-162-16C was collected at 16 0 16' bg at 1100 17 18

JA75400 TO 75599/75418.2; UNIMATIC ISRA CLOSURE/GINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:57:45 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE: GDT TEMPLATE: GDT

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of 1

Project	Unimatic Manufacturing			Location		25	Sherv	vood Lan	e
roject N	o. 12.0075418.20			Client		Un			turing, Inc.
	ompany Hawk Drilling Company			Elevation an		^{um} No	t Avai	able	
-	quipment Power-probe Drilling Method Direct Pus	:h		Date Started		12	16/09	ŀ	Date Finished 1/25/10
mpler	4' acetate liner			Final Boring		n	32 ft	[Depth to Rock
		p (in)	-	Groundwate Depth (ft)		Init	ial <u>V</u>		mpletion 24 Hours <u>V</u>
illing Fo	Brett, Steve & Adrienne	·		GZA Inspec	or			rang	Checked By Ben Alter
epth (ft)	Sample Description	PID Reading (ppm)	E ((t) ANTERIAL SYMBOL.	Number	Recov.	Penetr. Bl/6in aldure	Al Malue	•
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GZA GeoEnvironmental, Inc.

2418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:57:58 AM ...

GeoEnvironmental, Inc.

Sheet

of

2 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Sample Data Elev (ft) N-Value (Blows/foot) Remarks Depth Sample Description 20 Dense brown SILT, dry O 21 Q RUN-6 24 22 0 23 0 J.Y35400 TO 75599\75418.2, UNIMATIC ISRA CLOSUREIGINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:00 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template. TEMPLATE.GDT SB-163-24C was collected at 24' bg at 1520 on 12/16/09 SB-163A-24 was collected at Loose brown fine to medium SAND, moist 0 25 24' bg at 1450 on 01/25/10 0 RUN-7 읪 26 0 27 0 28 0 Medium dense red brown fine to medium SAND, 29 0 RUN-8 ક્ષી 30 0 31 0 SB-163A-32C was collected at 32' bg at 1455 on 01/25/10 32 0 33 34 35 36 37 38 39

GeoEnvironmental, Inc.

of 2 Sheet 1 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client 12.0075418.20 Unimatic Manufacturing, Inc. Drilling Company Elevation and Datum Not Available Hawk Drilling Company **Drilling Equipment** Drilling Method **Date Started** Date Finished **Direct Push** 12/17/09 1/25/10 Power-probe Final Boring Depth Depth to Rock Sampler 32 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial 🔽 Completion **T** 24 Hours V **Drilling Foreman** Checked By Catherine Fang Ben Alter Brett, Steve & Adrienne PID Reading (ppm) Sample Data Depth (ft) Elev (ft) Remarks Sample Description (F) 10 20 30 40 0 Loose brown medium to coarse SAND, some grey coarse Gravel, dry 0 Geoprobe 36 0 0 Stiff brown Sandy CLAY, some grey coarse 0 Gravel, dry 0 36 0 0 Loose brwon medium to coarse SAND, some grey 0 SB-164-8 was collected at 8' bg at 1430 on 12/17/09 coarse Gravel, dry 0 36 10 0 11 0 12 Very stiff brown Silty CLAY, dry 0 13 0 RUN-4 Geoprobe 24 0 15 0 16 0 SB-164-16 was collected at 16' bg at 1435 on 12/17/09 17 0 18 8 0 0

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418.2, UNIMATIC ISRA CLOSUREIGINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:13 AM ..

GZA GeoEnvironmental, Inc.

Sheet 2 of 2

Project No	Unimatic Manufacturing 12.0075418.20	•		CI	ent			****		ood Lane Manufactu	ıring. İnc	
Drilling Co	Dempany Hawk Drilling Company		4.	E	evation an	d Da	tum		Avail			
Depth (ft)	Sample Description	PID Reading		Elev.	MATERIAL SYMBOL	Number		Sa	Penetr. resist aldu Bl/6in	ata	Remarks	
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22		0				RUN-6	Geoprobe	84				
23		0										
24	Medium dense brown fine to medium SAND, saturated	0				_	_				SB-164-24C was α 24' bg at 1440 on 1 SB-164A-24 was α	ollect 2/17/
25	•	0					ge				SB-164A-24 was α 24' bg at 1055 on 0))) 1/25/
26		0				RUN-7	Geoprobe	24				
27		ó										
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30		0				RUN-8	Geoprobe	12		And the state of t		
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Project N Drilling C		12.0075418.20							4 D-4				actu	ring, Inc.				
		Hawk Drilling Co.	mpany			<u> </u>	- 1	Elevation an		um N	ot Avai	lable						
	quipment	Power-probe	Drilling Method	Direct	Push			Date Started		1:	2/29/09	1	l l	e Finished	12	/29/09		
Sampler		4' acetate liner	Ť				- 1	Final Boring	, .	h	36 ft	,	Dep	oth to Rock		36 ft		
Sampler		- N	eight (lbs)	·	Drop	(in)	.]	Groundwate Depth (ft) GZA Inspect	Г.	Ir	nitial $\underline{ abla}$	26		letion 🕎	-	24 Hour	s 💆	-
Drilling F	oreman	Steve & Bryan						GZA Inspect	or	Са	therine	Fang	Che	ecked By	Ber	n Alter		
Depth (ft)		Sample De	escription			(mdd)	Ele (f	() WATERIAL SYMBOL	Number		(in) Penetr resist Bl/6in	ata	ue foot)			marks		
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SB-165 Boring Log

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2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company Hawk Drilling Company** Not Available Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth (ft) Remarks Sample Description SB-165-20 was collected at 20 bg at 1030 20 0 21 0 RUN-6 22 0 23 0 1:175400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT112.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:23 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE GDT 24 0 25 0 RUN-7 ဗြု 26 0 Dense brown fine to medium SAND, saturated 27 0 SB-165-28 was collected at 28' 28 0 bg at 1032 29 0 RUN-8 8 8 30 0 31 0 32 0 33 0 RUN-9 \$ 34 0 35 0 SB-165-36C was collected at 28' bg at 1035 36 0 37 38 39

Sheet

of

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Project	Unimatic Manufacturing						Location 25 Sherwood Lane									
Project No. 12.0075418.20						Client Unimatic Manufacturing, Inc.										
Drilling Company Hawk Drilling Company						Elevation and Datum Not Available										
Drilling Equipment Geoprobe Drilling Method Direct Push						Date Started 12/17/09 Date Finished 1							12/17/09			
Sampler 4' acetate liner				- 1	Final Boring Depth 28 ft						Depth to Rock					
	Hammer	- Weight (lbs) - D)rop (in		ID∈	Groundwater Depth (ft)			Initial <u>∇</u> 16		16	Completion		_ 24 Hours <u>Y</u>		
Drilling F	oreman	Brett Pierson			G	GZA Inspector Catherine Fang Checked By Ben Alter										
Depth				,	Elev.	P. P.	<u> </u>	-	Sample Data			••		·		
(ft)	,	Sample Description	PID Reading (pom)		(ft)	MATERIAL SYMBOL	Number	Туре	Recov.	Penetr. resist Bl/6in	N-Valu (Blows/f 10 20 30			Remarks		
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75400 TO 7. 6418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:29 AM ...

SB-166

Boring Log

GZA GeoEnvironmental, Inc. Sheet 2 of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Not Available **Hawk Drilling Company** Sample Data PID Readin (ppm) Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks **Sample Description** SB-166-20 was collected at 20' bg at 1540 20 Loose brown fine to medium SAND, wet 0 21 0 RUN-6 22 0 23 0 24 0 Loose brown fine to medium SAND, saturated 25 0 RUN-7 26 0 27 0 SB-166-28C was collected at 28' bg at 1550 28 0 29 30 31 32 33 34 35 36 37 38 39 40

IV75400 TÒ 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:30 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template FEMPLATE.GDT

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Unimatic Manufacturing						25 Snerwood Lane											
12.00/3410.20					Unimatic Manufacturing, Inc.												
Dalling Company			Not Available Data Standard Data Standard														
Sampler	rower-probe	Power-probe Direct Push							12/	28/09	12/28/09 oth to Rock						
Sampler Hamme	4' acetate liner	4' acetate liner Weight (lbs) Drop (in)					28 π							· · · · · · · · · · · · · · · · · · ·			
Drilling Foreman	-	<u> </u>				Depth (ft) I I I I I I I I I I I I I I I I I I I						TCE	letion ecked By		lours <u>V</u>	<u> </u>	
Drining Foreittar	Steve & Bryan		1.	<u>. </u>	122		 T	. (nerine mple D	Fang		- J	Ben Alt	er	 	
Depth (ft)	Sample I	Description		(ppd)	∃ev. (ft)	MATERIAL SYMBOL	Number	Type		Penetr. resist aldu Bl/6in	N-Va (Blows			Remar	ks	·	
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sor	me brown coarse Gra	vel, dry															
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6418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:36 AM ...

SB-167 Boring Log

GeoEnvironmental, Inc. Sheet 2 of 2 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Hawk Drilling Company Not Available Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 SB-167-20 was collected at 20 bg at 1102 20 0 Dense red brown medium to coarse SAND, some grey coarse Gravel, wet 21 0 36 22 0 23 J.75400.TO 75599/75418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:38 AM ... Report Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 24 0 25 SB-167-25 was collected at 25' 0 bg at 1105 RUN-7 36 26 0 27 0 28 SB-167-28 was collected at 28' 0 bg at 1108 29 30 31 32 33 34 35 36 37 38 39 40

SB-168

Sheet

of

2

1 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Drilling Method **Drilling Equipment** Date Started Date Finished **Direct Push** 12/17/09 12/17/09 Geoprobe Final Boring Depth Sampler Depth to Rock 24 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial $\underline{\nabla}$: Completion T 24 Hours V 16 Checked By Drilling Foreman **Brett Pierson** Catherine Fang Ben Alter Sample Data PID Reading (ppm) Depth (ft) Elev (ft) Remarks Sample Description 10 20 30 40 FILL (non-native): asphalt ٠0 RUN-1 0 0 Brown SILT, some grey coarse Gravel, dry Ó RUN-2 0 0 Dense brown SILT, dry 0 0 RUN-3 9 10 0 0 12 Soft brown medium to coarse SAND, dry 0 13 0 RUN-4 24 0 0 16 Soft brown medium to coarse SAND, wet 0 SB-168-16 was collected at 16' bg at 1200 17 0 RUN-5 18 မ 0 19 0

ort: Log - NJ-GZA_GEOTECHNICAL ...Template 5418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:43 AM

GZA GeoEnvironmental, Inc.

SB-168 Boring Log

Sheet 2 of 2 Project Location Unimatic Manufacturing 25 Sherwood Lane Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. **Drilling Company** Elevation and Datum Not Available Hawk Drilling Company Sample Data PID Reading (ppm) MATERIAL SYMBOL Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description Type 20 0 Soft brown medium to coarse SAND, saturated 21 0 RUN-6 7 22 0 23 0 24 SB-168-24 was collected at 24' 0 bg at 1210 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Sheet

of

2

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Drilling Method **Drilling Equipment Date Started** Date Finished **Direct Push** 12/28/09 12/28/09 Power-probe Final Boring Depth Depth to Rock Sampler 28 ft 4' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) 24 Hours 🔽 Initial 🔽 Completion T Checked By **Drilling Foreman** Ben Alter Catherine Fang Steve & Bryan Sample Data PID Reading (ppm) Depth Elev (ft) N-Value (Blows/foot) Remarks Sample Description (ft) 0 FILL (non-native): Cobbles, brown Silt, dry 0 RUN-1 망 0 0 Medium dense brown coarse SAND, some coarse 0 Gravel, dry 0 RUN-2 원(` 0 0 0 Medium dense brown coarse SAND, some coarse Gravel, wet 0 RUN-3 10 0 0 12 0 13 0 RUN-4 ြင 36 0 15 0 16 0 Stiff red brown CLAY, wet 17 Q RUN-5 8 24 18 0 0

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418.2, UNIMATIC ISRA CLOSUREIGINT/12/0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:51 AM ...

GZA

Boring Log SB-169

GZA
GeoEnvironmental, Inc.

Boring Log
Sheet

2 of 2 Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available Sample Data Depth (ft) N-Value (Blows/foot) Elev (ft) Remarks Sample Description SB-169-20 was collected at 20 bg at 1220 20 0 21 0 RUN-6 g S 24 22 0 23 0 U/75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINTY 2.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:58:54 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT 0 Dense brown medium to coarse SAND, wet 25 0 RUN-7 9 24 26 0 27 0 28 SB-169-28 was collected at 28' 0 bg at 1225 29 30 31 32 33 34 35 36 37 38 39 40

Sheet

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Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company Drilling Equipment** Drilling Method Date Started Date Finished Power-probe **Direct Push** 1/25/10 1/25/10 Final Boring Depth Depth to Rock Sampler 32 ft 4' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Completion ____ Initial 🔽 24 Hours 🔽 12 Depth (ft) GZA Inspector Checked By **Drilling Foreman** Ben Alter Steve & Adrienne Catherine Fang Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Depth Remarks Sample Description (ft) 10 20 30 40 0 Loose brown fine to medium SAND, dry 0 36 0 0 0 0 RUN-2 36 0 0 SB-170-8 was collected at 8' bg at 1305 0 Very stiff brown CLAY, dry 0 RUN-3 36 10 0 0 12 Medium dense medium to coarse SAND, wet 0 13 0 RUN-4 P. 36 0 15 0 16 0 17 Ö RUN-5 9 5 0 0

ort: Log - NJ-GZA_GEOTECHNICAL ... Template

11/75400 TO 75 418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:59:03 AM ...

Boring Log SB-170

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2 of 2

Project Project No	, , .	Unimatic		turing					ŀ	ent			,			Lane		, ,	
Drilling Co		12.00754	18.20				,			vation a	id Da	tum	Unir	natic	Mai	nufac	turing	, Inc.	
	прапу	Hawk Dril	lling Com	npany							T		Not	Avail	able)	<u> </u>	,	
Depth (ft)	٠.	Sar	mple Des	scriptio	n		PID Reading	(mqq)	Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist Bl/6in aldu	N (Bio	-Value ws/foot) 20 30 40		Rema	rks
- 20 -	Stiff br	own CLAY,	saturated	<u> </u>		******	7	7			1-				Ť		\top		
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Boring Log SB-171

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Project	Unimatic Manufacturing	TL	_ocation			25	Sherw	ood Lane	•
Project N		1	Client						turing, Inc.
Drilling C	Hawk Drilling Company	E	Elevation an	d Da	A		Avail		
Drilling E	quipment Geoprobe Drilling Method Direct Push	10	Date Started	1			3/9/10		ate Finished 3/9/10
Sampler			Final Boring		th		12 ft		epth to Rock
Sampler	Hammer Weight (lbs) Drop (in)	10	Groundwate Depth (ft) GZA Inspec	ır		Initi	al <u>V</u>		pletion 24 Hours 7 -
Drilling F	oreman Brett Pierson	7	GŽA Inspec	tor	(Cath	erine	Fang C	hecked By Ben Alter
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(ft)	Sample Description	Ele (ft)	(A MATERIAL SYMBOL	Number	9 <u>0</u>	ğ.E	Penetr. resist Bi/6in	N-Value (Blows/foot)	Remarks
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7. 418.2. UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGSV12.0075418.20_BORING LOGS.GPJ ... 6. EDECHNICAL ... Template TEMPLATE.GDT

Boring Log SB-172

GZA GeoEnvironmental, Inc.

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Project N		12.0075418.2	20					Clie				Unim	atic Ma	nufac	turing, In	c.	
Drilling Co		Hawk Drilling	Company						ation an		tum	Not A	vailabl	е			
Drilling Ed	- de-mant	Geoprobe	Drilling Me	ethod Dire	ct Pus	h	. 1		Started			3/9	/10		ate Finished	3/	9/10
Sampler		4' acetate line	er				- 1		Boring		h	1	2 ft	C	epth to Roc	k 	-
Sampler I	Hammer		Weight (lbs)		Dro	p (in)	-	Gro	undwater th (ft)	r		Initial	፟ .		mpletion 👤	_ 2	4 Hours
Drilling Fo	oreman	Brett Pierson	····					GZA	Inspect	or		Cathe	ine Fa	ng C	hecked By	Ben A	lter
Depth (ft)			e Description	า		PID Reading (ppm)	El (1	ev. ft)	MATERIAL SYMBOL	Number		Recov. (in) Penetr.	le Data	l-Value ows/foot	I	Rem	
_ o <u> </u>	Fill (n	ative): Gravels,	grey fine to r	nedium Sa	nd.	0		-	XXX	ž	_	8 8	10	20 30 40	<u> </u>		
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SB-173

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Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company Date Started Date Finished Drilling Method **Drilling Equipment** Geoprobe **Direct Push** 3/9/10 3/9/10 Final Boring Depth Depth to Rock Sampler 4' acetate liner 12 ft Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial ∇ Completion **Y** 24 Hours V Depth (ft)
GZA Inspector Drilling Foreman Checked By Catherine Fang **Brett Pierson** Ben Alter Sample Data PID Reading (ppm) Depth (ft) Elev N-Value (Blows/foot) Remarks Sample Description (ft) 10 20 30 40 0 FILL (native): Gravels, dark brown medium to 0 coarse Sand, dry 0 RUN-1 မ 0 0 SB-173-4 was collected at 4' 0 bg at 1430 0 RUN-2 g 36 0 18.2. UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ....6N 2AL...Template TEMPLATE.GDT 0 SB-173-8 was collected at 8' 0 bg at 1432 0 RUN-3 g 36 10 0 FILL (non-native): Hard brown medium Sand, dry 0. 12 0 SB-173-12 was collected at 12' bg at 1435 13 16 17 19

GeoEnvironmental, Inc.

SB-174

Boring Log

GeoEnvironmental, Inc.

Sheet

of

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Date Started Date Finished **Drilling Equipment** Drilling Method 3/9/10 3/9/10 **Direct Push** Geoprobe Depth to Rock Final Boring Depth Sampler 12 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) Initial ∇ 24 Hours V Completion ____ Depth (ft)
GZA Inspector Checked By **Drilling Foreman** Ben Alter **Brett Pierson** Catherine Fang Sample Data PID Readin (ppm) Elev (ft) N-Value Depth (ft) Remarks Sample Description (Blows/foot) 10 20 30 40 0 FILL (native): Gravels, wood, brown silty Sand, dry 0 1 0 RUN-1 2 0 3 0 J.75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREISON. BORING&WELL LOGS\12.0075418.20_BORING LOGS\GPJ ... 6/19/2010 4:00:37 PM ... Report: Log -NJ-GZA_GEOTECHNIGAL ...Template TEMPLATE.GDT TETT TETT TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL SB-174-4 was collected at 4' 0 bg at 1440 0 RUN-2 9 0 0 SB-174-8 was collected at 8' 0 bg at 1442 0 RUN-3 3 ည 10 0 0 FILL (non-native): Medium hard light brown fine to medium Sand, dry SB-174-12 was collected at 12' 12 0 bg at 1445 13 15 16 18 19

or: Log - NJ-GZA_GEOTECHNICAL ...Template

418.2, UNIMATIC ISRA CLOSURE/GINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:59:29 AM ...

Boring Log SB-175

Sheet

of

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					<u></u>										Sheet	1		of	2	_
Project		Unimatic Manuf	acturing				Locat						vood L							_
Project No.		12.0075418.20					Client		4 F-	4				factu	ıring, Inc	•			- ,	_
Drilling Con		Hawk Drilling Co	ompany	<u> </u>			1	tion an		um		Avai		16.	la Gielek					
Drilling Equ	uipment	Geoprobe	Drilling Method	Direct I	Push		1			46.	4/	21/10		- 1	te Finished		1/21/	10		_
Sampler		4' acetate liner			7 5 /		1	Boring		tn		24 f			pth to Rock					
Sampler Ha		-	Weight (lbs)	• = -	Drop (i	n) 	Depth	ndwate (ft)			Initi	al <u>V</u>	17		oletion <u></u>		24 H	ours <u>J</u>	<u></u>	_
Drilling Fore	reman	Steve & Andrew					GZA	nspec	tor				Fang	Ch	ecked By	Ве	n Alte)r		
Depth (ft)		Sample D	escription		PID Reading	(wdd)	lev. (ft)	MATERIAL	Number	Type		Penetr. resist Bl/6in		foot)		R	emarl	ks		
- 0 -	Asph	alt		 	- 0	, -	-		Ž		Œ	<u>a.</u> = u	10 20	30 40						_
1 1	Loose	e brown fine to med e Gravel, dry	um SAND, so	me grey		5														
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4 -				. •	ď															
- 6 -									RUN-2	GP	24						.*			
- 7 =									<u>بر</u>		•		and the state of t							
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9 -					c				ဗ		-				;					
- 10 -			•	· . ·	C)			RUN-3	GP	36									
11 -	Т.	Brown Sacratal	do												. 1					
- 13 -	LOOSE	brown fine SAND,	ary		O								metaka itana manana							
- 14 -					0				RUN-4	GP	48									
- 15 -		· -	•		0				R							•				
- 16 -		,			o							,			;					
- 17 =	Mediu	im dense brown fine	to medium S	AND, wet	◡◩。															
- 18 -					0				RUN-5	GP	84					,				
19 -				•	0				•											

Boring Log SB-175

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2

Sheet 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Hawk Drilling Company Not Available Sample Data PID Reading (ppm) Elev. (ft) N-Value (Blows/foot) Remarks Depth Sample Description (ft) 10 20 30 40 20 Medium dense brown fine to medium clayey SAND, saturated 70 21 0 36 22 0 23 0 SB-175-24 was collected from 24' bg at 1235 24 0 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39

J:755400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREIGINT/12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:59:31 AM ... Report: Log - NJ-GZA_GEOTECHNICAL ...Template TEMPLATE.GDT

GZA GeoEnvironmental, Inc.

Boring Log

of

Sheet 1 Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Hawk Drilling Company Not Available Date Finished **Drilling Equipment** Drilling Method Date Started 6/4/10 Power-probe **Direct Push** 6/4/10 Depth to Rock Final Boring Depth Sampler 10 ft 5' acetate liner Groundwater Depth (ft) GZA Inspector Sampler Hammer Weight (lbs) Drop (in) Initial ∇ Completion **Y** 24 Hours 🔽 Checked By Drilling Foreman Catherine Fang Ben Alter **Andrew Bunnell** Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev (ft) Depth (ft) Remarks Sample Description 10 20 30 40 0 0 Asphalt 0 FILL: Gravel, brown coarse Sand, dry 2 SB-176-2C was collected from 0 RUN-1 2' bg at 1113 8 0 0 Brown fine to coarse SILT, dry 0 0 0 RUN-2 SB-176-8C was collected from 0 8' bg at 1115 0 0 12 13 15 16 17

t: Log - NJ-GZA_GEOTECHNICAL ... Template

418.2, UNIMATIC ISRA CLOSURE\GINT\12.0075418.20_BORING LOGS.GPJ ... 6/14/2010 11:59:35 AM ...

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GeoEnvironmental, Inc.

Boring Log SPE-8A

Sheet

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Project	Unimatic Manufacturing			Lo	cation			25	Sherv	vood L	ane		
Project No.	12.0075418.20	,		CI	ient				,			uring, Inc	
Delling Company	Hawk Drilling Company	,		Ele	evation an	d Da	tum		Avai				
Drilling Equipment	5 40 4 4	t Push	- •	Da	ate Started				15/09		Da	te Finished	10/15/09
Camples	4' acetate liner			Fii	nal Boring	Dept	th		24 fl	·	De	pth to Rock	-
Sampler Hammer	_ Weight (lbs)	Drop (in) _	Gr	roundwate	7		lniti	ial <u>V</u>	20		oletion <u></u>	_ 24 Hours <u>\</u>
Drilling Foreman	Brett Pierson			G	epth (ft) ZA Inspect	or	(Cath	erine	Fang	Ch	ecked By	Ben Alter
		gujb			렇건			Sa	mple D	ata			
Depth (ft)	Sample Description	PID Reading		Elev. (ft)	MATERIAL	Number	Туре	Recov.	Penetr. resist Bl/6in	N-Va (Blows 10 20 3	foot)		Remarks
FILL: lo	coarse Gravel, dry	.0											
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9 1 100se	red brown fine to medium SAND, little				XXXX								
: E brown	Clay, dry	ļ.		ĺ		6-]					
10 -		0				RUN-3	<u>g</u>	8					e e e e e e e e e e e e e e e e e e e
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: 15	•							1			Amon series		
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: 40 =											A representation of the least		
- 16 -		0						1				SPE-8	A-16 was collected at at 1030
:	•	1]				1					
- 17 -	•	0						1					
: ;						RUN-5	GP	\$					
- 18 -		°	1			2	9	4					
9 Loose brown 10													*
- 19 -	•	0											•
<u>-</u> <u>-</u>		∇				ŀ							

SPE-8A **Boring Log**

Project	Unimatic Manufacturing			- 1	cation		:	<u> 25</u> S	Sherv	vood Lane	
Project No.	12.0075418.20			- 1	ient			-		Manufactu	uring, Inc.
Orilling Cor	npany Hawk Drilling Company			Ek	evation an	d Da	i im		Avai		
	Training Company	Ē		L	축귀		·····	Sar	mple D	ata .	
Depth (ft)	Sample Description	PID Reading	E dd	Elev. (ft)	MATERIAL SYMBOL	Number	Lype) (E)	Penetr. resist BI/6in	N-Value (Blows/foot)	Remarks
- 20 -	Loose brown fine to medium SAND, some yellow		- 	╁	-	Ž		~	<u> </u>	10 20 30 40	
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- 22 -	•					RUN-6	g B	84			
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Boring Log SPE-10A

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GZA GeoEnvironmental, Inc.

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Project	Unimatic Manufacturing			1	ation			25 9	Sherv	ood L	ane	, , , , , , , , , , , , , , , , , , , 		,
Project No	12.0075416.20			Clie				Uni	matic	Manut	act	uring, Inc.		
Drilling Co	Hawk Drilling Company			Ele	vation and	d Da			Avail					
Drilling Eq	uipment Geoprobe Drilling Method Direct Pu	sh	****	Da	e Started				20/09	,	Da	te Finished	10/20	/09
Sampler	4' acetate liner			Fin	al Boring	Dept	h		24 ft		De	pth to Rock		_
Sampler F	lammer Weight (lbs) D	rop (in)		Gro	oundwater pth (ft)	r .	-	Initi	al ∑		Com	pletion _	_ 24	Hours 🕎
Drilling Fo			<u> </u>	GZ	oth (ft) A Inspect	or		•				necked By		
- 1	Brett Pierson	9		╧				Sa Sa	mple D	Fang		1	Ben Al	ter
Depth (ft)	Sample Description	PID Reading (ppm)	ı	Elev. (ft)	MATERIAL SYMBOL	Number	Туре		Penetr. resist	N-Val (Blows/			Rema	rks
三 0 寸	Loose brown SILT, some brown fine to medium													
- 1	Sand, dry				:									
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‡ _ ‡	medium Sand, dry	\cdot			· · · -			1						
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<u> </u>	Medium dense brown SILT, some brown fine to medium Sand, little brown Gravel, moist	0			·	1			1					
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SPE-10A **Boring Log**

Project	Unimatic Manufacturing		ocation.		2	25 8	Sherv	vood Lane				
Project No.	12.0075418.20		Client		J	Jnii	matic	Manufactu	ring, Inc.			
Drilling Cor	mpany Hawk Drilling Company	E	Elevation and	Da	fum		Avai					
Depth	(n)	Flex	, 사			Sai	mple D	ata	-	Rema	rke	
(ft)	Sample Description	Elev (ft)	MATERIAL SYMBOL	Number	Type	<u> </u>	Penetr. resist Bl/6in	N-Value (Blows/foot) 10 20 30 40		TOITE	11113	
- 20 🕂	Medium dense red brown fine to medium SAND, 0			-	Ħ	-	-	10 20 30 40	SPE-10/ 20' bg a	A-20 wa	s collec	ted a
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- 22 -	0			RUN-6	9	쓩			,			
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- 23 -	0								,			
24	0					\dashv			SPE-10	A-24C v	vas colle	ected
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Boring Log SPE-21A

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Project Project No.	Unimatic Manufa	cturing				1	cation ent			25 St							 :	
Drilling Company	12.0075418.20			 -		1	evation and	d Dat	f	, , , , , , , ,			ıfac	turing	, inc		 	
Drilling Equipment	Hawk Drilling Co	Daillian & Andhard				1	te Started			Not A		able	10	Date Fin	ished		100100	-
Sampler Sampler	Geoprobe	330.00	Direct F	ush		_	al Boring			10/20			- 1	Depth to		10	/20/09	
Sampler Hammer	4' acetate liner	Veight (lbs)		Drop (in)			oundwater			Initial	28 ft ∇	46		npletion		•	24 Hours	<u></u>
Drilling Foreman	-		• 1		-	De GZ	pth (ft) 'A Inspect	or				16	10	hecked		Dav		-
	Brett Pierson			T g	Г		· 1			Cathe Samp	nne ole Da	rang ta	.			Ber	n Alter	
Depth (ft)	Sample D	escription		PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре	Recov. (in) Penetr.		N-Va (Blows 10 20				Re	emarks	
Loos	e yellow brown fine to	medium SAND), some															
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- 16 - Med som	ium dense red brown	fine to medium	SAND,	. <u>-¥</u> ₀				1	Ħ	1								
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Boring Log

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GZA GeoEnvironmental, Inc. Sheet 2 of Project Location **Unimatic Manufacturing** 25 Sherwood Lane Client Project No. 12.0075418.20 Unimatic Manufacturing, Inc. Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** PID Reading (ppm) Sample Data Depth (ft) Elev (ft) N-Value (Blows/foot) Remarks Sample Description 20 SPE-21A-20 was collected at Medium dense brown fine to medium SAND, some brown coarse Gravel, saturated 20' bg at 1440 21 0 8 22 0 23 0 24 Medium dense brown fine to medium SAND, 0 saturated 25 0 84 26 0 27 0. 28 SPE-21A-28C was collected at 0 28' bg at 1515 MARALE, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\(12.0075418.20_BORING LOGS\).GPJ6\(NICAL_...Template\) TEMPLATE.GDT 29 30 32 33 35 36 37 38 39

SPE-23A Boring Log

Sheet of 2

Project No	12.0073416.20		Client Elevation ar	M D-	4	,			act	uring, Inc.
Drilling Co	Hawk Drilling Company				lum	Not	Avail	able		
Orilling Ed	ulpment Geoprobe Drilling Method Direct Pus	h	Date Starte			10/2	22/09			ate Finished 10/22/09
Sampler	4' acetate liner		Final Boring		th		36 ft		D	epth to Rock
Sampler I	lammer Weight (lbs) Dro	p (in)	Groundwate Depth (ft)	er		Initi	al 🔽	22	Com	pletion 24 Hours
Drilling Fo	reman Brett Pierson		GZA Inspec	tor		Cath	erine	Fang	C	hecked By Ben Alter
	Dict i icison	<u>8</u>		T			mple Da			
Depth (ft)	Sample Description	PID Reading (ppm)	(th) (haterial symbol.	Number	Туре	Recov. (in)	Penetr. resist Bl/6in	N-Val (Blows/ 10 20 3	foot)	Remarks
	FILL (native): loose dark brown fine to medium Sand, some brown coarse Gravel, dry	0	T	3						
	Sand, some brown warse Graver, dry		│ ‱							
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- 11 -	FILL (native): loose dark brown fine to medium	- 0	│ 💥	Ř						
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16 -	Soft brown silty CLAY, some brown Sand, wet					1				
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SPE-23A

GZA GeoEnvironmental, Inc.

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Project No	12.0075418.20		:		Clie				<u>Únir</u>	natic	Manufactu	ring, Inc.
Orilling Co	ompany Hawk Drilling Company				Ele	vation and	d Da	tum	Not	Avail	able	
		<u> </u>	P			록성			Sar	nple Da	ita	
Depth (ft)	Sample Description	8	(mdd)		Elev. (ft)	MATERIAL SYMBOL	Number	type	(j. 00)	Penetr. resist BI/6in	N-Value (Blows/foot)	Remarks
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24	Medium dense brown fine to medium SAND,		٥						•			4
25 –	some brown Clay, wet											
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26	:			.			RUN-7	g B	12			, , , , , , , , , , , , , , , , , , ,
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28	Medium dense brown fine to medium SANO		0									SPE-23A-28 was collected
=	Medium dense brown fine to medium SAND, some brown Clay, wet		_							.		28' bg at 1140
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32	Medium dense brown fine to medium SAND, some brown Clay, saturated	-1	o							· ·		
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Boring Log SPE-27A

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Project N	Unimatic Manufacturing			Client	•		25 Shen			ıring, Inc	 -			_
Drilling C	12.0075418.20			Elevation an	d Da	4	Not Ava		acit	ning, inc	<u> </u>			-
Drilling Ed	Hawk Drilling Company Geoprobe Drilling Method Direct Po	.ob		Date Started	·		10/21/09		Dat	e Finished	10	/21/09		_
Sampler	Geoprobe Direct Pt	1811		Final Boring	Dept	h	32 f		De	oth to Rock		12 1103	•	-
Sampler I	4' acetate liner Hammer Weight (lbs)	Prop (in)		Groundwate	r	,	Initial 💟		Comp	letion T		24 Hours	4	-
Drilling Fo		· · · ·		Depth (ft) GZA Inspec	or					ecked By		J	<u>+</u>	_
	Brett Pierson	- De	-т	<u> </u>			Catherine Sample D	e Fang Data	ــــــــــــــــــــــــــــــــــــــ		Bei	n Alter		-
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	some soft Clay, dry				}									
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Boring Log SPE-27A

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Project	Unimatic Manufacturing				cation		2	25 S	herv	vood Lane	
Project No	12.00/5418.20				ent		ι	Jnin	natic	Manufactur	ring, Inc.
Orilling Co	Hawk Drilling Company			Ele	evation and	Da	1			lable	
Denth		PID Reading (ppm)		Flev	Z Z				nple D		Remarks
Depth (ft)	Sample Description	5 8 €	· [Elev. (ft)	MATERIAL SYMBOL	Number	Type		Penetr. resist Bi/6in	N-Value (Blows/foot)	
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	Medium dense brown fine to medium SAND, some brown silty Clay, wet	,				R		``		The state of the s	
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- 24 -	Medium dense brown fine to medium SAND,	0						\dashv			,
<u>_</u>	some brown silty Clay, saturated										
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Sheet 1 of 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Drilling Method Date Started Date Finished Drilling Equipment Geoprobe/HSA Direct Push/HSA 10/21/09 12/1/09 Depth to Rock Sampler Final Boring Depth 34 ft 34 ft 4' acetate liner & 1.5" split spoon Weight (lbs) Groundwater Sampler Hammer Drop (in) Initial 🔽 Completion T 24 Hours V Depth (ft)
GZA Inspector Checked By Drilling Foreman Ben Alter Catherine Fang **Brett & Todd** Sample Data PID Reading (ppm) N-Value (Blows/foot) Depth (ft) Elev Remarks Sample Description (ft) 10 20 30 40 0 0 FILL (native): loose dark brown fine to medium Sand, some brown coarse Gravel, dry 1 0 RUN-1 ဖ 2 0 3 0 J.75400 TO 7559975418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/19/2010 6:01:18 PM ... Report: Log - NJ-GZA GEOTECHNICAL ...1emplate TEMPLATE.GDT 0 0 RUN-2 0 0 0 0 RUN-3 မြ ៀខ្ល 10 0. 0 12 0 13 0 RUN4 0 15 0 16 Ò Medium dense brown fine to medium SAND, some stiff Clay, dry 17 0 RUN-5 5 18 0 19 0

Sheet

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of 2

Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Elevation and Datum Not Available Hawk Drilling Company Sample Data PID Reading (ppm) Depth (ft) N-Value (Blows/foot) Elev Remarks Sample Description (ft) 10 20 30 40 20 Medium dense brown fine to medium SAND, some stiff Clay, wet 21 0 22 0 23 0 24 0 Medium dense brown fine to medium SAND, some stiff Clay, saturated 25 0 RUN-7 12 26 SPE-28A-26 was collected from 26' bg at 1430 on 0 10/21/09 27 0 28 29 418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGSI(12.0075418.20_BORING LOGS.GPJ) ... & ICAL ... Template TEMPLATE.GDT 0 30 0 31 0 32 SPE-28A-32C was collected from 32' bg at 1510 on 0 Stiff brown fine to medium CLAY, some Gravels, some yellow to greenish powder, saturated RUN-1 10/21/09 24 33 0 34 SPE-28B-34 was collected at 34' bg at 1030 on 12/01/09 0 35 36 37 38 39

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Boring Log SPE-31A

GZA GeoEnvironmental, Inc.

Sheet

of

Project Location 25 Sherwood Lane Unimatic Manufacturing Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available **Hawk Drilling Company** Date Started Date Finished **Drilling Equipment Drilling Method Direct Push** 10/20/09 10/20/09 Geoprobe Depth to Rock Sampler Final Boring Depth 20 ft 4' acetate liner Groundwater Weight (lbs) Drop (in) Sampler Hammer Initial 🔽 24 Hours V Completion ____ Depth (ft)
GZA Inspector Drilling Foreman Checked By Ben Alter **Brett Pierson** Catherine Fang Sample Data PID Reading (ppm) N-Value (Blows/foot) Elev Depth Remarks Sample Description (ft) Zype (ft) 10 20 30 40 FILL: loose brown fine to medium Sand, some brown coarse Gravel, Asphalts, dry 0 RUN-1 2 0 3 0 Loose yellow brown fine to medium SAND, dry JA75400 TO 75599/75418.2, UNIMATIC ISRA CLOSUREISOIL BORING&WELL LOGS\12.0075418.20_BORING LOGS.GPJ ... 6/19/2010 6:03:20 PM ... Report: Log -NJ-GZA GEOTECHNICAL ...Template TEMPLATE.GDT 0 5 0 RUN-2 0 0 0 9 0 RUN-3 10 0 Loose brown SILT, little brown Gravel, dry 11 0 SPE-31A-12 was collected at 12 0 12' bg at 1015 13 0 RUN4 GP 8 14 0 15 0 16 0 17 0 RUN-5 ᆼ 8 18 0 19 0 SPE-31A-20C was collected at 20' bg at 1030

SPE-33A

Sheet

of

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Project Location **Unimatic Manufacturing** 25 Sherwood Lane Project No. Unimatic Manufacturing, Inc. 12.0075418.20 Elevation and Datum **Drilling Company** Not Available Hawk Drilling Company **Drilling Equipment** Drilling Method Date Started Date Finished 10/20/09 10/20/09 Geoprobe **Direct Push** Depth to Rock Final Boring Depth Sampler 24 ft 4' acetate liner Sampler Hammer Weight (lbs) Drop (in) Groundwater Initial $\underline{\underline{\nabla}}$ Completion <u> </u> 24 Hours V 20 Depth (ft) GZA Inspector Checked By Drilling Foreman Ben Alter **Brett Pierson** Catherine Fang Sample Data PID Reading (ppm) Elev (ft) Depth Remarks Sample Description (ft) 10 20 30 40 0 FILL (native): loose grey fine to medium Sand, asphalt, dry 0 RUN-1 8[36 2 0 0 0 0 RUN-2 9 2 0 418.2, UNIMATIC ISRA CLOSURE'SOIL BORING\$WELL LOGS\(12.0075418.20_BORING LOGS\(GP1...8\)\
NICAL...Template TEMPLATE\(GDT\) 0 0 0 RUN-3 8 36 10 Loose brown SILT, some brown fine to medium 0 Sand, dry 11 0 12 0 13 0 RUN4 8 0 15 0 16 Loose brown fine to medium SAND, some brown 0 SPE-33A-16 was collected at 16' bg at 1110 17 0 RUN-5 B 8 18 0 0

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GeoEnvironmental, Inc.

SPE-33A **Boring Log**

Sheet

of

2 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Not Available **Hawk Drilling Company** Sample Data PID Reading (ppm) Elev (ft) N-Value (Blows/foot) Remarks Depth **Sample Description** Type (ft) 20 Loose brown fine to medium SAND, some brown Silt, wet 0 21 0 Stiff brown CLAY, wet RUN-6 G 8 22 0 23 0 24 SPE-33A-24C was collected at 0 24' bg at 1130 25 26 27 28 29 30 31 32 33 34 35 36 37 38

Sheet 1 of 2

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Project	Unimatic Manufacturing				Loc	cation			25 S	herw	ood L	ane					
Project N					Clie	ent					-		uring, Inc).			
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Drilling E	Dalling Markey	ct Pus			Da	te Started				0/09	2010	Da	te Finished	10/	20/09		_
Sampler		Ct Pus	511		Fin	al Boring	Dept		•			De	epth to Rock		20/09		
	4' acetate liner Hammer Weight (lbs)	Dro	p (in)	,		oundwater				24 ft		ᆚ	pletion T		24.11 5		_
Drilling F	oroman				l Dei	pth (ft) A Inspect			Initia				necked By		24 Hours 5	<u>¥</u>	_
Dilling i	Brett Pierson	·	Ι	,	Щ,	7 (1. lope qu			Cathe	erine ople Da	Fang		T	Ben	Alter		_
Depth (ft)	Sample Description	-	PID Reading	E	lev. (ft)	MATERIAL SYMBOL	Number	Туре	Recov.	·	N-Val (Blows/	foot)		Ren	narks		
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	FILL (native): loose dark brown medium to coa Sand, some brown coarse Gravel, some bricks	rse	0			XXXX	,										
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Boring Log SPE-34A

GZA GeoEnvironmental, Inc.

Sheet

of

2 2 Project Location 25 Sherwood Lane **Unimatic Manufacturing** Project No. Client Unimatic Manufacturing, Inc. 12.0075418.20 Drilling Company Not Available **Hawk Drilling Company** Sample Data PID Reading (ppm) MATERIAL SYMBOL Elev (ft) N-Value (Blows/foot) Remarks Depth Sample Description Type (ft) 10 20 30 40 20 Ö Medium dense red brown fine to medium SAND, 21 0 RUN-6 မ္မွု 9 22 0 23 0 SPE-34A-24C was collected at 24' bg at 1350 24 0 25 J375400 TO 75599175418.2; UNIMATIC ISRA CLOSUREISOIL BORING&WELL ŁOGS112.0075418.20_BORING ŁOGS.GPJ ... 6/19/2010 5:46:23 PM ... Report: Log - NJ-GZA_GEOTECHNICAL ... Template TEMPLATE.GDT ... IN THE PERFORMENT OF THE PERFORMENT 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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Project No.	Unimatic Manufacturing		Client			25 Shen						
Drilling Compan	12.0075418.20		Elevation an	d Da				actu	ring, Inc.			
Drilling Equipme	Hawk Drilling Company	٠ ا	Date Started		- (Not Ava		Dat	e Finished	414	(10	
Sampler	Power-probe Direct Push		Final Boring			10/19/09		Der	th to Rock	1/4	6 ft	
Sampler Hamme	4' & 5' acetate liner r Weight (lbs) Drop (in)		Groundwate	r		$\frac{36 \text{ f}}{\text{Initial } \underline{\nabla}}$		Comp	etion T		oπ Hours <u>V</u>	.
Drilling Foreman	-	-	Depth (ft) GZA Inspect	tor		atherine			cked By	Ben Al		
	Breil, Steve & Bryan		<u> </u>			Sample C		╁		Dell Al	<u>ter</u>	
Depth (ft)	Sample Description	E)(1	MATERIAL SYMBOL	Number	Туре	Recov. (in) Penetr. resist	N-Val (Blows/	- 1		Rema	rks	
FIL	L (native): loose grey medium to coarse Sand, ne coarse Gravel, asphalt, dry	,								•		
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GZA GeoEnvironmental, Inc.

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Project No	Unimatic Manufacturing	.,		- 1	ent			•	Sherw	-		*u,
Orilling Co	12.00/5418.20			-	vation and	d Dat	ti im				ıfactı	uring, Inc.
Juling Co	Hawk Drilling Company	1="			· · · · · · · · · · · · · · · · · · ·	- Dai	COIT		Avail			<u></u>
Depth (ft)	Sample Description	PID Reading (ppm)		Elev. (ft)	MATERIAL SYMBOL	Number	Туре	_	Penetr. resist aldu Bl/6in g	N-V (Blows		Remarks
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Boring Log

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Sheet of Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company** Drilling Equipment Date Started Date Finished **Drilling Method Direct Push** 12/17/09 12/17/09 Geoprobe Sampler Final Boring Depth Depth to Rock 16 ft 4' acetate liner Groundwater Sampler Hammer Weight (lbs) Drop (in) 24 Hours 🔽 Initial 🔽 Completion ____ Depth (ft)
GZA Inspector Checked By **Drilling Foreman** Ben Alter Catherine Fang **Brett Pierson** PID Reading (ppm) Sample Data Elev. Depth (ft) N-Value (Blows/foot) Remarks Sample Description 10 20 30 40 0 Loose brown SILT, wet 0 RUN-1 dЭ 2 0 3 0 0 Loose brown SILT, dry 0 RUN-2 8 0 0 118.2. UNIMATIC ISRA CLOSURE'SOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... E 2AL ... Template TEMPLATE.GDT 0 0 RUN-3 8 10 ST-1-10 was collected at 10' 0 bg at 0930 0 12 0 13 0 RUN4 <u>a</u>[] 4 0 15 0 16 ST-1-16C was collected at 16' 0 bg at 0940 17 18 19

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GeoEnvironmental, Inc.

Boring Log ST-2

GZA GeoEnvironmental, Inc.

Sheet

of

Location Project 25 Sherwood Lane **Unimatic Manufacturing** Client Project No. Unimatic Manufacturing, Inc. 12.0075418.20 **Drilling Company** Elevation and Datum Not Available **Hawk Drilling Company Drilling Equipment Drilling Method Date Started** Date Finished 12/17/09 **Direct Push** 12/17/09 Geoprobe Depth to Rock Final Boring Depth Sampler 16 ft 4' acetate liner Weight (lbs) Drop (in) Groundwater Sampler Hammer Initial 🔽 Completion T 24 Hours V Depth (ft) GZA Inspector Checked By Drilling Foreman Ben Alter **Brett Pierson** Catherine Fang Sample Data PID Readin (ppm) Depth (ft) ⊟ev (ft) N-Value (Blows/foot) Remarks **Sample Description** 쟔 10 20 30 40 0 Loose brown SILT, some grass, dry 0 2 0 3 0 1/75400 TO 75599/75418.2, UNIMATIC ISRA CLOSURE/SOIL BORING&WELL LOGS/12.0075418.20_BORING LOGS.GPJ ... 6/19/2010 5:46:45 PM ... Report: Log - NJ-65A GEOTECHNICAL ... femplate TEMPLATE.GDT 0 5 0 RUN-2 Ф 8 0 Ō 0 0 RUN-3 g) 8 ST-2-10 was collected at 10' 0 bg at 1010 11 0 12 Loose brown medium to coarse SAND, dry 0 13 0 RUN4 14 0 15 0 ST-2-16C was collected at 16' 16 0 bg at 1015 17 18 19

Boring Log TP-1A

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Project	Unimatic Manufa	cturina			Location	<u></u>	2	5 Sherv	vood La	ane		01 1
Project No.	12.0075418.20				Client					acturing, Inc		
Drilling Co	Hawk Drilling Co	mpany			Elevation an	d Dati		lot Avai	-			
Drilling Equ	uipment Geoprobe	Deiling Mathed	ect Push		Date Started			0/14/09		Date Finished	10/14/0	9
Sampler	4' acetate liner	<u> </u>			Final Boring	Deptr		20 ft		Depth to Rock		-
Sampler H		Veight (ibs)	Drop (in)	-	Groundwater Depth (ft)	7	.	Initial 💆		Completion	_ 24 H	lours <u>V</u>
Drilling For	reman Brett Pierson		· · · · · ·		GZA Inspect	or	C	atherine		Checked By	Ben Alte	er
Depth (ft)	Sample De	escription	PID Reading (ppm)	El	(t) .ve	Number		Sample D	ata	ue poot)	Remar	
- 0 +	FILL (native): Cobble, grey	modium to coome	<u> </u>	`	y ≨∞ xxxxx	됩	2 3	Penetr. Resist	10 20 3	· •		
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Waste Discrepancies:

Signature of authorized agent and title:

No. 0508

WASTE MANAGEMENT EASTERN PA MARKET AREA 446 Oxford Velley Road Langhorne, PA 19047

(800) 963-4776 - Technical Service Center

Document Refer No. 09 037020

BOL#

Denal#

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		The state of the s				
	Generator of Waste	(must be filled in by producer) EPA I.D. No	NJI)002	200046	
	Charamata Nama	Cycle Chem. Inc.	Company Contact: _			:
	Company Namet	217 S. First Street	Company Contact: _	Elizabet	rint or Type)	octoba
	Pick-up Address	(No.) (Street		Elizabet	(City)	07206 (State)
		(909) 345 5500			• ••	7,1
	Telephone Number			SIC No.	<u> </u>	
	Waste Stream Iden	tification: This manifest re	epresents a non-hazardói	us waste as per EP	A and PADEP	regulations.
•	Tons 70	Cúbic Yards:		Other (Snecifi	Λì:	
				· Awar ()	· · · · · · ·	
	Name of Waste	Decharabterized Waste	, ,		- · · · · · · · · · · · · · · · · · · ·	_
	Special Handling In	structions, if any:		•	The other is the	en en en en en en en en en en en en en e
	PROFILE/ WA	STE STREAM I.D. NÜ	MBER: 6443270)		
s Is	s to certify that the abo	ye named materials are proper	rly classifted, described	J. packaged, mai	ked, and la	beled and are
ipéi	r condition for transpor	tation according to applicable :	state and federal law.	The wastes wer	e consigned	to the transpo
nec	 I certify that the for 	egoing is true and correct to th	ne best of my knowled	ge. /	1 1	11
ï	13 27 10		A	$M \in \mathcal{I}$	* /	Fla
é:_	03 10	•	Signature:	thetret	1 1	ster. by
		•			(Name and Titl	Commission (2)
		•				
				<u></u>		p. January
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.::::	Hauler of Waste (m	ust be filled in by hauler) EPA I	I.D. No.			
			I.D. No.			
		ust be filled in by hauler) EPA I Morales Trucking, inc.	I.D. No.		- (
- 	COMPANY NAME:	Morales Trucking, Inc.		/nrk 14 1 07000		
	COMPANY NAME:	Morales Trucking, Inc. 3259 64th Street	West New Y	'ork, NJ 07093		An .
	COMPANY NAME:	Morales Trucking, Inc. 3259 64th Street	West New Y			E) G 1
	COMPANY NAME:ADDRESS:Pick-up Date:	Morales Trucking, Inc. 3256 64th Street	West New Y	Vehlcle L	lc. No.//	<i>7.</i>
	COMPANY NAME:ADDRESS:Pick-up Date:	Morales Trucking, Inc. 3256 64th Street 27 10 Truck N bed waste was picked up and	West New Y	Vehicle L	lc. No.//	<i>7.</i>
, 100 m	COMPANY NAME:ADDRESS:Pick-up Date:	Morales Trucking, Inc. 3259 64th Street	West New Y	Vehicle L	lc. No.//	<i>7.</i>
	COMPANY NAME:	Morales Trucking, Inc. 3266 64th Street 2 7 (10) Truck N bed waste was picked up and tify under penalty of perjury th	west New Y	Vehicle L	lc. No.//	<i>7.</i>
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1	COMPANY NAME: ADDRESS: Pick-up Date: 0-3 The above descr Was accepted. I cel Print name & title of Signature of authori: Disposer of Waste (r SNO.W.S. Landoll 313 Bordentown Rd. domisville, PA 19067	Morales Trucking, Inc. 3266 64th Street Truck N bed waste was picked up and tify under penalty of perjury the authorized agent: zed agent: Tyllytown Resource Recovery Bacillis (E.R.R.) 200 Bordensown Rd.	co. CIRCLE O G.R.O.W.S. North 1000 New Ford Morrisville, PA	Vehicle Lilsposal facility nate and sorrect, NE: Landfill dil Rd. 19067	Mountain View 9446 I Greenea	Reclamation Lands elzburg Rd.
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WASTE MANAGEMENT EASTERN PA MARKET AREA 444 Oxford Valley Road Langhorne, PA 19047

(800) 963-4776 - Technical Service Center

Document Refer No. 09 037175

BOLETTA SOA

NON-HAZARDOUS WASTE MANIFEST

	7			
	Generator of Waste	(must be filled in by producer) EPA	I.D. No. <u>NJD0</u>	02200046
	Company Name:	Cycle Chem, Inc. Co.	mpany Contact:	
	Pick-up Address	217 S. First Street	• • • • • • • • • • • • • • • • • • • •	(Print or Type) peth NJ 07206
	Fick-up Addi cas	(No.) (Street)		(City) (State)
	Telephone Number:	(908) 355-5600	SIC No.	
	Waste Stream Ident	ification: This manifest repress	ents a non-hazardous waste as per	EPA and PADEP regulations.
	Tons:	• • • • • • • • • • • • • • • • • • • •	Other (Spe	
		Decharacterized Waste		·
				•
	Special Handling Ins		ED. 644327D	
ajangia ,		STE STREAM I.D. NUMB ve named materials are properly cla	en:	mentions and laboled and arolla
med.	condition for transport I certify that the fore	ation according to applicable state egoing is true and correct to the be	and rederal law. The wastes st of my knowledge.	were consigned to the transport
te: <u></u>	C71 12/1)	: :	ognacie:	(Name and Title)
•		·		
	Hauler of Waste (mu	ist be filled in by hauler) EPA I.D. I	ło	
	COMPANY NAME:	Morales Trucking, inc.		
•	ADDRESS:	325B 54tH Street	Wost New York, NJ 07	0 93 :
		11 1	1 4 11-15	de LIC. No. AH 190
			: '	
	The above descri	bed waste was picked up and haul	ed by me to the disposal facilit	y named below and
	Mas acconted Tres	TIRV HINNOF DENSITY OF DEFILITY THAT I		
		tify under penalty of perjury that t	11 and 1	
	Print name & title of	authorized agent:	11 and 1	ily
		authorized agent:	11 and 1	ily
	Print name & title of Signature of authorize	authorized agent:	uf fit las	
	Print name & title of Signature of authorize	authorized agent:	11 and 1	
	Print name & title of Signature of authoriz Disposer of Waste (r	authorized agent: zed agent: must be filled-in by disposer) Tollytown Resource Recovery Facility	uf fit las	Mountain View Reclamation Landfill
A:	Print name & title of Signature of authorized Disposer of Waste (r	authorized agent: zed agent: must be filled-in by disposer) Tollytorn Resource Recovery Facility (T.R.F) 200 Bordentown Rd.	CIRCLE ONE: G.R.O.W.S. North Landfill 1000 New Ford Mill Rd.	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastie, PA 17225
A:	Print name & title of Signature of authorized Disposer of Waste (rown & Landall 513 Bordentown & Lorisville, PA 19067 Permit # 100148	authorized agent: zed agent: must be filled-in by disposer) Tollytown Resource Recovery Facility (T.R.R.F) 200 Bordentown Rd. Tullyown, PA 19007	CIRCLE ONE; G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Montisville, PA 19067 PADEP Permit # 101680	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastle, PA 17225 PADEP Pormit # 101100
A:	Print name & title of Signature of authorize Disposer of Waste (real No.W. & Landnill 513 Bordentown Rd. Itemsville, PA 19967	authorized agent: zed agent: must be filled-in by disposer) Tollytorn Resource Recovery Facility (T.R.F) 200 Bordentown Rd.	CIRCLE ONE: G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Morrisville, PA 19067	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastie, PA 17225
Allia	Print name & title of Signature of authorized Disposer of Waste (representation of the Company o	authorized agent: zed agent: must be filled-in by disposer) Tollytova Resource Recovery Facility (T.R.R.F) 200 Bordentown Rd. Tullyowa, PA 19007 PADEP Permit # 101494 (215) 736-0195 Grand Ceptral Sanitary Landfill	CIRCLE ONE: G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Mornisville, PA 101670 PADEP Permit # 101680 (215) 736-0195 Pine Grove Landfill	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastle, PA 17223 PADEP Pormit # 101100
Allia 39	Print name & title of Signature of authorized Disposer of Waste (representation of the Control o	authorized agent: zed agent: must be filled-in by disposer) Tollytown Resource Recovery Facility (T.R.R.P) 200 Bordentown Rd. Tullyown, PA 19007 PADEP Permit # 101494 (215) 736-0195	CIRCLE ONE; G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Montiville, PA 19067 PADEP Permit # 101680 (215) 736-0195	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastle, PA 17223 PADEP Pormit # 101100
Allia 39	Print name & title of Signature of authorized Signature of authorized Signature of Authorized Signature of Authorized Signature Rd. 19067 Parmit # 100148 (215) 736-0195 ence Sanitary Landfill Page South Keyser Ave. Tuylor, PA 18517 Permit # 100933	authorized agent: zed agent: must be filled-in by disposer) Tollytown Resource Recovery Facility (T.R.R.P) 200 Bordentown Rd. Tullyown, PA 19007 PADEP Permit # 101494 (215) 736-0195 Grand Central Sanitary Landfill 910 W. Pennsylvania Ave. Pen Argyl, PA 18072 Permit # 100265	CIRCLE ONE: G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Mornisville, PA 19067 PADEP Permit # 101680 (215) 736-0195 Pine Grove Landfill 193 Schuluz Rd. Pine Grove, PA 17963 Permit # 101427	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastle, PA 17225 PADEP Pormit # 101100
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Allia 39	Print name & title of Signature of authorize Disposer of Waste (rown & O.W. & Landnill 513 Bordentown & M. 19067 Permit # 10014B (215) 736-0195 ance Sanitary Landnill 98 South Keyser Ave. Taylor, PA 18517 Permit # 100933 (570) 562-1600 subject to this manifes	authorized agent: zed agent: must be filled-in by disposer) Tollytown Resource Recovery Facility (T.R.F) 200 Bordentown Rd. Tullyown, PA 19007 PADEP Permit # 101494 (215) 736-0195 Grand Central Sanitary Landfill 910 W. Pénnsylvania Ave. Pen Argyl, PA 18072 Permit # 100265 (610) 863-2400	CIRCLE ONE: G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Momisville, PA 19067 PADEP Permit # 101680 (215) 736-0195 Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (370) 345-2777 It to this disposal facility and a	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastle, PA 17225 PADEP Pormit # 101100 (717) 597-5535
Allia 39	Print name & title of Signature of authorize Disposer of Waste (representation of the Control of	authorized agent: zed agent: must be filled-in by disposer) Tollytown Resource Recovery Facility (T.R.F) 200 Bordentown Rd. Tullyown, PA. 19007 PADRP Permit # 101494 (215) 736-0195 Grand Central Sanitary Landfill 910 W. Pennsylvania Ave. Pen Argyl, PA. 18072 Permit # 100265 (610) 863-2400 t was delivered by the above haule	CIRCLE ONE: G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Momisville, PA 19067 PADEP Permit # 101680 (215) 736-0195 Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (370) 345-2777 It to this disposal facility and a	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastle, PA 17225 PADEP Pormit # 101100 (717) 597-5535
Allia 39	Print name & title of Signature of authorize Disposer of Waste (rown & O.W. & Landnill 513 Bordentown & M. 19067 Permit # 10014B (215) 736-0195 ance Sanitary Landnill 98 South Keyser Ave. Taylor, PA 18517 Permit # 100933 (570) 562-1600 subject to this manifes	authorized agent: zed agent: must be filled-in by disposer) Tollytown Resource Recovery Facility (T.R.F) 200 Bordentown Rd. Tullyown, PA 19007 PADEP Permit # 101494 (215) 736-0195 Grand Central Sanitary Landfill 910 W. Pénnsylvania Ave. Pen Argyl, PA 18072 Permit # 100265 (610) 863-2400 t was delivered by the above haule (DISPOSAL C.	CIRCLE ONE: G.R.O.W.S. North Landfill 1000 New Ford Mill Rd. Momisville, PA 19067 PADEP Permit # 101680 (215) 736-0195 Pine Grove Landfill 193 Schultz Rd. Pine Grove, PA 17963 Permit # 101427 (370) 345-2777 It to this disposal facility and a	Mountain View Reclamation Landfill 9446 Leizburg Rd. Greenoastle, PA 17225 PADEP Pormit # 101100 (717) 597-5535

Printed/Typed Name

Signature

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsoleje.

DESIGNATED FA

20. Designated Facility Owner or Operator: Contification of receipt of hazardous materials covered by the manifest except as noted in liam 183

DESIGNATED FACILITY TO GENERATOR

Day



	tor type: (Form designed for use on elite (42 pftch) typewriter.)	e e e e e e e e e e e e e e e e e e e				n Approved	5 I. OMB No. 2050-0
UNIF	ORM HAZARDOUS WASTE MANIFEST 21. Garagelof D Number (Continuallon Sheet)	22. Page 2 of 5		est Tracking Nu COO	14	OVES	.
	nerator's Name CYCLE CREM						
25. Tr	ensporter Company Name FREEHOLD CARTAGE INC	*	•:	U.S. EPA ID N J C	Number 0 5	4 1 3	e 1 ह. व
26. Tr	ansporter Company Name			U.S. EPA ID	Number		
27a.	27b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if sny))	28. Conta		29. Total Quantity	30. Unit	. A 31.	Waste Codes
X	5; UN2315, POLYCHLORINATED BIPHENYLS, LIQUID, 9, II, HQ	008	DW	01219	к	PCB2	OUTS2191
x	6, UN2315, POLYCHLORINATED BIPHENYLS, LIQUID, 9,	001	DM	00168	к	PC61	OUTS2191
х	7. UN3432, POLYCHLORINATED BIPHENYLS, SOIAD, MIXTURE, 9, 11, RG	001	DRA	00077	К	РСВ2	OUT\$4091
x	8 NA3077, HAZARDOUS WASTE, SOLID, n.o.s., (LEAD), 9. III, RG (COO8)	007	СМ	940	ĸ,	0008 PCB2	OUTS/091
X	9, UN2315, POLYCHLORINATED BIPHENYLS, LIQUID WIXTURE, 9, III. RG (PCB)	020	DM:	05419	K	PCB2	OUTS4091
x	10.UNZ315, POLYCHLORINATED BIPHENYLS, LIQUID MIXTURE, B, III, RO (PCB)	001	DW	00159	K	PCB2	OUT\$2091
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teaso (print or type. (Form dest			wnier) j.s.				N aires		n Approved.		2050-00
	NIFORM HAZARDOUS	1. Generator ID		A R	2 Page 1 of	3. Emergency Resp (877) RTH-UK		00	746	309	0 v	ES
100	WASTE MANIFEST Generalor's Name and Med		02200		<u>1</u>	Generalors Site Add	** ***	- 1			· ·	- July 1949
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Ge	nerator's Phone:	55-5800		<u> </u>							·	
6.7	Transporter 1 Company Nat REEHOLD CARTA							U.S. EPAID		å 1 2	8 1	ð 4
7.1	Fransporter 2 Company Nam	10		<u> </u>			•	U.S. EPAID)	lumber			
		real Catalog		y i da a a a a a				U.S. EPAID)	himbor			
0. L	Designated Facility Name of	3	ighway 73	f Taylors ev		, s				8 8 3	te di	D.:6
Fac	carry's Phone:	AFENCI		Partie myleni		4					· · · · · ·	
9a	وها بعد مناسبات		er Shipping Name, H	azani Class, ID Number,	:	10. C	onlainers Type	11. Total Quantity	12 Unit	13.5	Nasie Code	\$
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14.4 by	Special Handling Instruction VESTO	s and Additional i	nformation ALX	ENITEM ATTAK	TEO FOR		TSCATHE	SHATION	- ER Se	ivice Con	vected	4. T
age	VESTO TI			•	12(1) 10/	L# [2]	,- 3.0 06636	od Hilter	(
[] 15	GENERATOR'S/OFFERO	R'8 GERTRAGAT	KON: I hereby declar	that the contents of this						and are class	ified pack	ned.
<u> </u>	marked and labeled/placed Exporter, I certify that the of I certify that the waste mini	ded, and one in all onlents of this co	l respecte in proper co risignment conform to	ndition for transport acc the terms of the attache	ording to applica d EPA Acknowle	ble international and doment of Consent	national governi	nental regulations.				
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16. b	nlemational Shipments		ONNOL	Ly	٧ -	Mura		orna C	1-		3 19	1/1
	nsporter signature (for expor	limpart ls only):	lo U.S.		Export from U.		of entry/exit: eaving U.S.:				· · · · ·	
17. T	ransporter Acknowledgment		eriela									
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18a, i	Discrepancy indication Spa	»	inilty	Пуре		Residue		Partial Reje	ction		Full Reje	alon
18b. /	Allemale Facility (or General	(or)			. <u> </u>	Manifest Refer	nce Number:	U.S. EPAID N	Imber	<u></u>		·
	• • • •	•		•								
	lys Phone:			· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1			· · · · · · · · · · · · · · · · · · ·	
100.5	Signature of Alternate Facili	y (or Generator)	,	•			:	*		Mont	h Day	Year
	azardous Wasto Report Ma	ragement Method	Codes (i.e., codes fo	r hazardous waste treati	ment, disposat,	and recycling system	s)					<u> </u>
1.			2.	· · ·	3.			. 4.				
	esignated Facility Owner or	Operator: Certific	l alion of receipt of hex	erdoup materials covered	d by the mantle	l except as noted in	llem 18a	l				
	d/Typed Name				Signa		,			Mont	n Day	Year
i					1		-				1.	1

nt or type. (Form designed for use on eille	12-plich) typewriter)				Fom	Approved	OMB NO	. 2030		
ORM HAZARDOUS WASTE MANIFEST (Confinuation Sheet)	N (1:0022200066	22. Page 2 tol 4	23. Man			OVES				
enerator'a Name	CACTE CHEM									
rensporter Company Name 7 Sc. X.	MACONELATERS			U.S. EPAID	yumber .,	à (;)	· · · · · · · · · · · · · · · · · · ·	(;		
rensporter Company Name			Silver on the State of State o	U.S. EPA ID	Vumber					
	pping Name, Hazard Class, ID Number,	28. Con	erinania eria	29. Total	30. Unit	31. Waste Codes				
		No.	Туре	Quantity	WL/Vol.	-		-		
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TO UNISTE, IPOLYCHILOROGAL MIXTURE, 9, III, RCYCCO)	UDBPIENYCS, LYJON							FY24372		
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	Comminuation Sheet) seemator's Name rensporter Company Name TRY, Enterpreter Company Name 27b. U.S. OOT Description (Including Proper Shi and Packing Group (if any)) 5. CM2315, PCIL, VC210, ANIMANI B. IRC) 11. FRQ 11.	(Gontinuation Sheet) sensator's Name CYCLE CHEM tensporter Company Name TREETE ACCESSES AND BY STATE ASSESSED From party Name 276. U.S. OOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if eng)) 15. ORZSTS, POLYCHICAVINALE I ESPAINTED NYES, I ROUD, 9 11. FRO TO INEXETTS, POLYCHICAVINALE I ESPAINTED, I COULD, 9 11. FRO TO INASSES, POLYCHICAVINALE I ESPAINALE, I COULD, 9 NIXTURE, 9, III, ISO (FCG) TO UNESTS, POLYCHICAVINALE I ESPAINALE, IRRUDO MIXTURE, 9, III, ISO (FCG)	COMM HAZARDOUS WASTE MANIFEST 21. Generalor ID Number (Continuation Sheet) 2.1. Generalor ID Number (N. 1.1. G. 0.2.2.0.0.0.4.6.2.0.0.0.4.6.2.0.0.0.4.6.2.0.0.0.4.6.2.0.0.0.0.4.6.2.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	Continuation Sheet Company Name	ORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) OVER CHEM Inneporter Company Name TREETER CONCERN (CONTINUATION NOTE CHEM) Inneporter Company Name TREETER CONCERN (CONTINUATION NOTE CHEM) Inneporter Company Name (Company Name) OVER CHEM US EPAID AND US EPAID US EPA	*** ORM HAZARDOUS WASTE MANIFEST (Continuation Sheet) ***PART CONTINUATION Sheet) ***PART CONTINUATION Sheet) ***PART CONTINUATION Sheet) ***PART CONTINUATION Sheet) ***PART CONTINUATION Sheet) ***PART CONTINUATION Sheet) ***PART CONTINUATION Sheet) ***PART CONTINUATION Sheet CONTINUATION SHEET SHEET CONTINUATION SHEET CONTINU	To Continuation Sheet) 27. Generator D Number No. 1 L. 0 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22. Page 23. Manifest Tracking Number 1. Continuation Sheet) 21. Continuation Sheet) 22. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		

Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on eitle (12-plich) typewriter.) UNIFORM HAZARDOUS WASTE MANIFEST 21. Generalor ID Number 23. Manifest Tracking Number 22. Page N 1 1 0 0 2 2 0 0 0 4 6 *ે* હો "∑ 000463090VES (Continuation Sheet) CYCLE CHEM 24. Generator's Name U.S. EPAID Number Company Name The Ent. A Charles In Ball. 25. Transporter ___ U.S. EPA ID Number 28. Transporter _____ Company Name 28. Containers 27a. 27b. U.S. OOT Description (Including Proper Shipping Name, Hazard Class, ID Number, 29. Total 30. Unit 31. Waste Codes and Packing Group (if any)) WL/Vol. Quantity No. Type 5. UNZBT9, POLYCZIONINATED SIPJENYES, HOUID, 9. PCRP DF IT 113.10 K 0118 (113 OFFE PAGE TE DISEATE, PER YEMBERHRES REDSHAREMENTES, FROMBE, S. 17:331 11. FKG 00168 Υ. (10) 1.74 (元)(8)(19) रः पेकिनवेत्रेत्रः मिन्नकटलाएं स्थायप्याप्या स्थापनाम् अपन्ति । 探法 MIXITURE, U. P. FRO 00077 DUL MF.I K CXTSHUEL B. MASU/ I. FIALACTOCUS WASTE, SCHIERTINGS, ICEAE) EXHOU 9. III, RQ (D00xi) X X 007 Dat PCBZ CALEBOAT S. UNESTO, ROLLYCHEORING FEBRURISHEN MASSING CONTROL FCER X MIXTURE, 9, III, 180 (PCB) 174 じきゅうむ 0.20 Κ CRITERIOR TOWNS TO PERSONAL PROPERTY OF THE PROPERTY OF FY 432 MINTURE O. III, HOLD OFCE 091 1 7 2 00199 X CHIEF THE

Land Disposal Restriction Notification Form

Generator Name CYCLE CHEM

EPA ID Number NJD002200048

Manifest 000463090VES

This notice is being provided in accordance with 40 CFR 268.7 to Inform you that this shipment contains waste restricted from land disposal by the UERFA under the land disposal restriction program. Identified below for each container is the designation of the waste as a wastewater or non-wastewater, the Clean Water Act (CWA) permit status associated with the treatment/disposal facility, upplicable waste codes and any corresponding subcategories, list of any F001-F005 solvent constituents that are present in the waste, and any underlying hazardous constituents (UHC) that are present.

Container Number: NO-1227737000-010 (1/1)

WIP / Approval Code:

874058 / PTA874058

Form Designation / CWA Status:

Non-Wastewater / Non-CWA

Waste Codes (Subcategories):

DOD1 (IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >=

10% TOC PER 261.2 1(a)(1)), D018, D035

Constituents (F001 - F005):

None

UHCs Present:

None

Treatment Requirements:

Restricted waste requires treatment to applicable standards.

Additional Notices:

Container Number: NO-1227737000-003 (1/ 2)

WIP / Approval Code:

024742 / PTA674054

Form Designation / CWA Status:

Non-Wastewater / Non-CWA

Waste Codes (Subcategories):

DUO1 (IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >=

10% TOC PER 261.2 1(a)(1)), F002, F003 (NONE), F005

(HONE)

Constituents (F00) - F005):

None

UHCs Present:

Not Applicable

Treatment Requirements;

Restricted waste requires trealment to applicable standards.

Additional Notices:

CCI PCB Continuation Page

Manifest:				Page
Line #; a)1 168	CCI product code Number	PCBT19 Weight	Veolia code Out of Se	PTA114270 ervice Date
	1622723	168	1/18/10	
Line#: b	CCI product code	PCBT8	Veolia code	PTA660864
1 115	Number	Weight	Out of Se	ervice Date
	1619814	115	2/10/10	
Line #: c	CCI product code	РСВТ7	Veolia code	PTA673983
77	Number	Weight	Out of Se	rvice Date
	1619906	TH.	12/22/10	
Line #: d	CCI product code	PCBT6	Veolia code	PTA673982
, 1 040 -	Number	Weight	Out of Se	rvice Date
946	1620937	139	2/16/10	
•	1620938	126	2/16/10	

4

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	1622720	129	9/29/09	
	Number	Weight	Out of Se	rvice Date
f	CCI product code	PCBT5	Veolia code	PTA674054
,	1619214	213	2/9/10	
	1619213	228	2/9/10	1
	1619212	178	2/9/10	
	1619211	229	2/9/10	
	1619210	206	2/9/10	•
	1619209	261	2/9/10	
	1619208	324	2/9/10	
	1619207	349	2/9/10	
	1619206	349	2/9/10	
	1613464	319	1/18/10	
	1613459	296	1/18/10	
	1613458	280	1/18/10	
	1613457	289	1/18/10	
	1613456	293	1/18/10	
	1613447	306	1/18/10	

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Manifest:				Page
Line#:J	CCI product code	PCBT1	Veolia code	PTA674056
1 224	1 Number W	Weight	Out of Service Da	
	1621150	224	2/17/10	
	CCI product code	PCBT21	Veolia code	PTA119845
	Number	Weight	Out of Se	rvice Date
	1620851	200	9/3/10	
	1620852	209	3/3/10	•
	1620853	227	3/3/10	•
	1620854	165	3/3/10	
. •	1620855	206	3/3/10	
	1620856	213	3/3/10	



STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

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cumulative GPM

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ap.	1.5	100	17/11		4.00	, .
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C A 1	LOCULATED	OVOTERACE .	/ IVACINA	TOITH O		TATE T

NJDEP	are of
BUREAU OF WATER SYST	EMS.
D WELL PERMITTING	
PÖ BOX 426	1 -
TRENTON, NJ 08625-0426	

email: wellpermitting@dep.state.nj.us

AND ONLY AFTER APPROVAL BY THE D.E.P.

OVAL BI THE D.E.I.	
COORD #:	26.01.569
Driller Huk	Drilling
Address 93	and of Hill Rd
() Shu	Jun 14 07882
iameter [Well(s)	Proposed Inches Depth of Well(s) Feet
of Wells pplied for (max. 10)	Will pumping equipment be utilized? YES NO
one of Well	iev.

The state of the s		
Owner Carloq Royly	Driller Huk)	Mug
Address D5 Shaward Cn.	Address 93 Con	nototy H.
FORTHER NO OTONY	() Shire to	in NK a
Name of Facility Formor Un. May I. C Co.	Diameter	Proposed
Address 25 Shorwood Cane	# of Wells Applied for (max. 10)	Depth of Well(s) Will pumping equipment be utilized? YE
Fair Field NT 07004	Type of Well (see reverse)	If Yes, give pump capacity
LOCATIONO		

M.C. 7

LOCAL ID **(Y) (X)**

Municipality

Draw sketch of well(s) nearest roads; buildings, etc. with marked distances in feet. Each well MUST be labeled

with a name and/or number on the sketch.

501 20 Showard Lane

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET METHOD

🗷 DIGITAL IMAGE 🔲 GPS

DOD 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	the state of the s
FUR MONITORING WELLS RECOVERY WELLS OF DIEZOMETERS THE FOLLOW	WINDLY A SIGN DE OOL OIL TONN
FOR MONITORING WEELS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLO	WING MUST BE COMPLETED BY
THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:	
THE WELLS ARE BEING INSTALLED:	

RCRA Site ☐ Spill Site Underground Storage Tank Site

☐ ISRA Site

☐ CERCLA (Superfund) Site

Pretreatment and Residuals-Site

Operational Ground Water Permit Site

Water and Hazardous Waste Enforcement Case

Water Supply Aquifer Test Observation Well Other (explain)

CASE I.D. Number

This Trace for Approval Stamp

FOR III	Issuance of this permit	is subject to the	he conditions	สารอิกิศส (เ	ee nevt name)	
and the second	。在 在建设 设计划,例如				coment page)	
N.P. USE≋⊢			1 - 1 - 1 - 1		美数相比 200	
	F-13 C-17-17-1	44			1 RASS - 12 (1)	

Signature of Drille Signature of Property Owner

monitoring purposes only

Registration No.

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

USE OF WELL:

Air Sparge Boring/Probe Hole Borros Anchor Cathodic Protection Electrode

Extensometer
Gas Vent
Inclinometer
Injection

Monitoring/Observation
Oil/Gas Exploration

Piezometer

Pneumatic Piezometer

Recharge Recovery

Soil Vapor Extraction Temperature Probe

Vibrating Wire Piezometer

Replacement/Type of Well (Specify)

Make Checks Payable to: "TREASURER - STATE OF NEW JERSEY"

In accepting this permit the Owner and Driller agree to abide by the following terms and conditions:

- 1. This permit conveys no right, either expressed or implied, to divert water.
- 2. Well permits, submitted incomplete and/or illegible will be returned without approval for modification.
- 3. If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems & Well Permitting.
- 4. Once the well is abandoned, the Owner will assume full responsibility for having the well decommissioned in a manner satisfactory to the Department, in accordance with the provisions of N.J.A.C. 7:9D-1 et seq.
- 5. This permit will be valid for one (1) year from date of approval. Department must be notified in writing of permit cancellation.
- 6. A well record must be filed with the Bureau of Water Systems & Well Permitting within ninety (90) days after the well is completed.
- 7. This permit is NONTRANSFERABLE.
- 8. If the use of the well is to be changed, a well permit for the proposed use of the well must be submitted for review and approval. The existing well permit number must be referenced on the application form.

Well Permit Number

P200913551

WARD INFAITIBIES TION CADDE	MONITORING W	VELL RI	ECORD	· · · · · · · · · · · · · · · · · · ·	Atlas Sheet Co	
WNER IDENTIFICATION CARDE	AN KEALI I	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		260156	9
ess 25 SHERWOOD LANE	State Nov. Iona		<u> </u>	7:- C	-1- 07004	
ity <u>Fairfield</u>	State New Jers		·		ode <u>07004</u>	
ELL LOCATION - If not the same as o	- - .	Ov	vner's Well N			
ounty Essex Municipa	lity Fairfield Twp	<u> </u>	Lot No.	8 Bloc	k No. 2302	
ddress 25 SHERWOOD LANE FORME	R UNI MATIC CO.		· ·	•		
VELL USE Monitoring		DAT	E WELL STA	ARTED _	11/24/09	•`
		DAT	E WELL CO	MPLETEI	11/24/29	
VELL CONSTRUCTION	Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
otal Depth Drilled ft.	Single/Inner Casing	0	- - -	7	PVC	40
inished Well Depth 17 ft.	Middle Casing				FVC	10
orehole Diameter:	(for triple cased wells only)					-
Top <u>Ø</u> in. Bottom <u>Ø</u> in.	Outer Casing (largest diameter)					
Vell was finished: ☐ above grade ★ flush mounted	Open Hole or Screen (No. Used	7	17	2	PUC	40
finished above grade, casing height tick up) above land surface	Blank Casings (No. Used)				, '	
· · · · · · · · · · · · · · · · · · ·	Tail Piece					
protective casing installed?	Gravel Pack	5	17	8	Wel Gaud	42
tatic Water Level after drilling ft.	Grout	0	5	8	Neat Cement Bentonite	多/8 lbs /と lbs
Vater Level was Measured Using	<u> </u>		routing Metho		JL	/L
/ell was developed for //2 hours			rilling Method		2mil	
gpm			THIRD MAN			
lethod of development		Note:		GEOLOG	······································	
ump Capacity gpr	m .		e each depth where actions	e water was en	acountered in consolidat	0
ump Type Submersible		عـ ا)-17 °	5.14	50 mel + 6	العن هم
rilling Fluid Type o	of Rig IR THID		Some	cobbi	<u>e5</u>	
ealth and Safety Plan Submitted? Yes	₩No	_		·		·
evel of Protection used on site (circle one)	· 	A	·			<u> </u>
		—		· · · · · · · · · · · · · · · · · · ·		
certify that I have constructed the above re ccordance with all well permit requirement lles and regulations.	ferenced well in ts and applicable State					
rilling Company HAWK DRILLING, INC	<u>.</u>		AS-BU	ILT WEL	L LOCATION	
Vell Driller (Print) TODO Nav					NTAL DATUM)	
riller's Signature	3.7	NJ S	STATE PLAN	E COORDII	NATE IN US SURV	EY FEET
ration No. M16992	Date 12 120109	NOR	THING: <u>74</u>	•	EASTING: 53	5885
		,		OR		
	* .	LATIT	TUDE: 0	' "1	LONGITUDE: 0	

Well Permit Number P200913552

MONITODING WELL DECORD

		MONITORING V	VELL R	ECOND		Atlas Sheet Coo	•
OWNER IDENTIFICATION	CARDE	AN REALTY				260156	9.
Address 25 SHERWOOD	LANE		·		····		
City Fairfield		State New Jers	еу		Zip Co	ode <u>07004</u>	
WELL LOCATION - If not the	same as o	wner please give address	Qv	vner's Well N	o. MWE	<u> </u>	
County Essex	Municipal	lity Fairfield Twp		Lot No.	8 Bloc	k No. 2302	•
Address 25 SHERWOOD LAN	E FORME	R UNI MATIC CO.					
WELL USE Monitoring				E WELL STA	_	11/24/09	
WELL CONSTRUCTION		Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Total Depth Drilled $\frac{\partial \mathcal{O}}{\partial z}$	_ ft.	Single/Inner Casing				Pila	40
Finished Well Depth 20	_ ft.	Middle Casing	0	10	<u> 2</u>	PUC	70
Borehole Diameter:		(for triple cased wells only)					
Top 8	_ in. _ in.	Outer Casing (largest diameter)				·	
Well was finished: above grad		Open Hole or Screen (No. Used DAO)	10	20	2	Puc	40
If finished above grade, casing he (stick up) above land surface		Blank Casings (No. Used)				-	
		Tail Piece					
Steel protective casing installed? Yes No		Gravel Pack	8	ao	8_	100	4 Z
Static Water Level after drilling	id n.	Grout	0	8	8	Neat Cement Bentonite	188 lbs
Water Level was Measured Using	Tope	-	G	routing Metho	od.	Tremie	· ————————————————————————————————————
Well was developed for $\frac{1}{2}$ h				rilling Method		SA	
at gpm				· · · · · · · · · · · · · · · · · · ·		GIC LOG	
Method of development	mp		- Note	each depth wher		acountered in consolida	ted
Pump Capacity 2	gpr	n ·		ations	A 13 1	< . ()	+6000
Pump Type Show	15.ble		-	0-de	300 T	y Saus	701400
Drilling Fluid	Туре о	of Rig IR THIO	_ —	Dine C	Show		
Health and Safety Plan Submitted	? Yes	△ No					
Level of Protection used on site (circle one)	None D C B	A				
· · · · · · · · · · · · · · · · · · ·	•				 		
							
I certify that I have constructed the accordance with all well permit rules and regulations.							
Drilling Company HAWK DRIL	LING, IN	ÿ.				L LOCATION	
Well Driller (Print) 1010	Mayor	ale,	NI			NTAL DATUM) NATE IN US SUR	VEV FFFT
Driller's Signature	100	indle	!		£	i	CCANI
Registration No. Mile	992	Date 12 120109	NOF	ething:74	15234 OR	EASTING: 5	2) /d!
		en e	LATI	TUDE:0_		LONGITUDE: 0	,

COPIES:

DRILLER

OWNER

HEALTH DEPARTMENT

ORIGINAL: DEP

Well Permit Number P200913554

MONITORING WELL RECORD

HEALTH DEPARTMENT

		G. PPE		OKLING V	V EVILLE	Kr	CORD		Atlas Sheet Co	
OWNER IDE	ENTIFICATION 25 SHERWOOD		AN REALTY		•				260156	
City	Fairfield	LAINE	State	New Jers	ev	,		Zip C	ode 07004	
•			•			0	ner's Well N	 • ·		
County Esse	ATION - If not the		wher please gi lity Fairfield				Lot No.		k No. 2302	
·	SHERWOOD LAN		*					6 Dioc	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	
Address 23	SHERWOOD LAIN	E PORVIE	K OIVI WIATIC	. CO.			-		1. 100	
WELL USE	Monitoring			· · · · ·			E WELL STA		11/24/07	
•	•			• •	D.	ATE	E WELL CO	MPLETEI	11/24/08	
WELL CON	STRUCTION		Note: Measur		Depth		Depth to	Diameter	Material	Wgt./Rating
Total Depth I	Orilled 18-5	ft.	from land		Top (ft.)	Bottom (ft.)	(inches)		(lbs/sch no.)
Finished Wel	Depth /8.5	ft.	Single/Inne	r Casing	0		8.5	\overline{a}	Puc	40
Borehole Dia	(م.		Middle (for triple cases							
	Top <u>\$</u> Bottom \$	_ in. in.	Outer C (largest di							
	shed: above grad	ie	Open Hole (No. Used	or Screen	8.3	5	16.5	2	Pre	40
	ove grade, casing he eve land surface		Blank C (No. Used							
•		11.	Tail P	iece					(, 0	
	ve casing installed? No		Gravel	Pack	4		18.5	8	well brave	#2
	A No Level after drilling /	d ft.	Gro	ut	0	•	Co	8	Neat Cement Bentonite	/88 lbs lbs
Water Level	was Measured Using	icefs	2.			Gr	routing Metho	od T	remie	
Well was dev	eloped for <u>\(\frac{1}{\text{C}} \) \(\)</u>	nours					rilling Method			
at(gr	om	'n			Γ			GEOLOG	GIC LOG	
Method of de	velopment / v	mt			 	Note	each depth wher	,,	ncountered in consolida	ted
Pump Capaci		gpı	m	•		forma	ations	()	51 Ly Saero	\sim
Pump Type	Submor	sible					<u>>-18.5</u>	obbla		1+6194
Drilling Fluid		_	f Rig TAT	HIU	•		Done (Spine		-
	fety Plan Submitted		⊠No							
Level of Prote	ection used on site (circle one)	None O) C B	Α .					
					-					
					-		· · · · · · · · · · · · · · · · · · ·			
	have constructed the vith all well permit rulations.									
•	pany HAWK DRIL	LING, INC	C.						L LOCATION	
Well Driller (<u>المرية</u>	1.0						NTAL DATUM)	
Driller's Signa	A 37) 1 2.	i Le	· · · · · · · · · · · · · · · · · · ·	ł			í.,	NATE IN US SURV	A .
I ration ?		12	Date 12	2120109	N	OR	THING: 7^{ι}	15/47	EASTING: 53	55997
				·				OR		
***	4			•	L	ATIT	UDE:0		LONGITUDE: 0	

COPIES:

DRILLER

OWNER

ORIGINAL: DEP

Well Permit Number P200913555

MONITORING WELL RECORD

tles Sheet Coordinates

	AN REALTY				260156	
Address 25 SHERWOOD LANE City Fairfield	State New Jers			Zin C	ode 07004	I
				<u> </u>		
WELL LOCATION - If not the same as o County Essex Municipal	lity Fairfield Twp	Ov	vner's Well N Lot No.			
Address 25 SHERWOOD LANE FORME	R UNI MATIC CO.				,	
WELL USE Monitoring			E WELL STA E WELL CO		11/25/09	
WELL CONSTRUCTION	Note: Measure all depths	Depth to	Depth to	Diameter	Material	Wgt./Rating
Total Depth Drilled $\frac{\mathcal{U}}{\mathcal{U}}$ ft.	from land surface Single/Inner Casing	Top (ft.)	Bottom (ft.)	(inches)		(lbs/sch no.)
Finished Well Depth $\underline{\mathcal{U}}$ ft.		0	30	2	PUC	40
Borehole Diameter:	Middle Casing (for triple cased wells only)					,
Top 5 in. Bottom 6 in.	Outer Casing (largest diameter)					
Well was finished: above grade	Open Hole or Screen (No. Used	30	40	ک	PUL	40
If finished above grade, casing height (stick up) above land surface ft.	Blank Casings (No. Used)				·	
Steel protective casing installed?	Tail Piece				- H 1	
Yes No	Gravel Pack	98	40	8	Wellbauer	# Z 470lbs
Static Water Level after drilling / ft.	Grout	0	28	8	Neat Cement Bentonite	Dibs lbs
Water Level was Measured Using Tokel Well was developed for 1/2 hours	2		Frouting Methor		emil	
at 1 gpm				GEOLOG	GIC LOG	
Method of development Kung					countered in consolida	ted
Pump Capacity gpi Pump Type Submersible	n	1	nations	5/10	Sand +	50,00
Pump Type <u>Submersible</u>	cn: 40-11.17		Sime	Colo		2:100
Drilling Fluid Type of Health and Safety Plan Submitted? Yes	fRig TP THIO	_ _		-2-11		
Level of Protection used on site (circle one)	None D C B		12-55	Cabbl	es Boule	<u>سنع</u>
notes of the section about on the Control only	1010 0 0		30-40	Silly	Sound H	have
I certify that I have constructed the above re accordance with all well permit requirement rules and regulations.		-				
Drilling Company HAWK DRILLING, INC	C. _A				L LOCATION	
Well Driller (Print)	- V .,				NTAL DATUM)	
Driller's Signature	uele	1			NATE IN US SURV	
Registration No. M16942	Date 1212009	NOR	RTHING: 70	15 <u>108</u> Or	EASTING: 53	5785
		LATI	TUDE:0_		LONGITUDE: 0	

COPIES:

DRILLER

OWNER

HEALTH DEPARTMENT

ORIGINAL: DEP

New Jersey State Department of Environmental Protection Bureau of Water Systems and Well Permitting PO BOX 426 Trenton, NJ 08625-0426 Tel: 609-984-6831

Well Permit Number E201001517

WELL PERMIT

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit Certifying Driller: STEVE YOTCOSKI, JOURNEYMAN LICENSE # 0001359

Permit Issued to: HAWK DRILLING, INC.			
Company Address: 93 CEMETERY HILL RD WASHIN	NGTON, NJ 07882		_
PROPERTY OWNER			
Name: CARDEAN LLC CARDEAN LLC			
Organization: Cardean LLC			
Address: _25 Sherwood Lane			
City: Fairfield State: New Jerse	су	Zip Code: 07004	
PROPOSED WELL LOCATION Facility Name: Frameware LLC			
Address: 25 Sherwood Lane Fairfield NJ 07004			
County: Essex Municipality: Fairfield Twp	Lot: 8	Block: 2302	
Easting (X): 555964 Northing (Y): 745082 Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID:	MW-4B	
SITE CHARACTERISTICS			
PROPOSED CONSTRUCTION			
WELL USE: MONITORING	Other Use(s):		
Diameter (in.): 2	Regulatory Program Requiring Wells/Boring	35:	

Attachments:			- C	
		-		
SPECIFIC CONDITIONS/REQUIREMENTS	_			· · · · · · · · · · · · · · · · · · ·

Case ID Number:

Deviation Requested: N

Approval Date: February 23, 2010 Expiration Date: February 23, 2011

Depth (ft.): 25

Pump Capacity (gpm): _0 ...

Drilling Method: Hollow Stem Augers

Approved by the authority of: Mark Mauriello **Acting Commissioner**

Well Permit -- Page 1 of 2

John Fields, Acting Bureau Chief Bureau of Water Systems and Well Permitting

New Jersey State Department of Environmental Protection Bureau of Water Systems and Well Permitting PO BOX 426 Trenton, NJ 08625-0426 Tel: 609-984-6831

Well Permit Number **E201001517**

WELL PERMIT

		WELL FERMIT
	DEVIATION INFORMATION	ON
	Purpose:	
	Unusual Conditions:	
	Reason for Deviation:	
	Proposed Well Construction	
1		
Į	GENERAL CONDITIONS/R	REQUIREMENTS
	A copy of this permit shall be l	kept at the worksite / on the property and shall be exhibited upon request.
	All well drilling/pump installat	ion activities shall comply with N.J.A.C. 7:9D-1 et seq.
	For this permit to remain valid	the well approved in this permit shall be constructed within one year of the effective date of the permit.
	If the pump capacity applied for	or is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of
	the Bureau of Water Systems a	
		nanged a well permit for the proposed use of the well shall be submitted for review and approval.
	If you or a future property own	er intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or
		upply wells), the well must be constructed as a Category 1 well per the Well Construction and
		I.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well
	redesignated as a community v	vater supply well, the well must be constructed by a Master well driller, which would include having a
		l times during construction of the well, as specified in the Well Construction and Abandonment
		ew Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new
	well would have to be installed	
		operty Owner and Driller agree to abide by the following terms and conditions
		aned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a
		Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et
l	Seq.	11 4 h
		Il not be construed in any way to affect the title or ownership of property, and shall not make the New
I		nental Protection or the State a party in any suit or question of ownership of property.
	any future application.	ll not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on
		either expressed, or implied to divert water.
		obtaining of Federal or other State or local Government consent when necessary. This permit is not valid
1	Line permit does not warve the	obtaining of a cucial of outer state of local government consent when necessary. This permit is not valid

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained.

This permit is NONTRANSFERABLE

This well shall not be used for the supply of potable / drinking water.

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Version: 4.7

Currently logged in: Todd Naugle (HAWKDRILLING3)

HAWD

HAWD

HAWK DRILLING, INC. Help | Logout

APPLICATION DISPLAY

			WELL RE	CORD S	UBMIT	TAL PDF			
PROPERT	Y OWNER:	Carde	ean LLC Carde	an LLC				•	
Organizati	on:	Carde	an LLC	-	•				
Address:		25 Sh	erwood Lane,	, Fairfield	(Essex)	, New Je	rsey 07004		
WELL LO	CATION:	Frameware LLC							
Address:		25 Sherwood La	ne Fairfield N.	3 07004					
County:	Essex	Municipality:	Fairfield Twp	Lot:		8	Block:	2302	2
Easting(X)	: 555960	Northing(Y):	745079	Coord	inate Sy	stem:	NJ State Plan	ne (NAD83) - U	SFEET
Method:	•	GPS		Point	of Refer	ence:	Well		
GPS Manu		magellan		Surve	yor Nam	ne:	•		
GPS Mode	l :	pro		Surve	yor Lice	nse #:	•		
Accuracy:	·	3			acy unit		Feet		
WELL US	E:	Monitoring	DAT	E WELL	STARTE	ED:	 	03/31/2	010
Other Use	e(s):		DAT	E WELL	COMPL	ETED:		03/31/2	
WELL CO	NSTRUCTION	1	··						
Permit No	umber	Total Depth Drill	led(ft):	- 55		Dr	illing Company:	TODD	NAUGLE
E2010015	17	Finished Well De	epth(ft):	55			iller Name:	Todd N	
Local ID:	MW-4B	Well was finishe	d:	Flus	sh Mount		ense No.:	002220	_
blank row			<u> </u>						
	Depth to To	p (ft.) Depth to	Bottom (ft.)	Diamete	r (inches) Materia	al Wat /Ratina/	Screen Slot # (lbs/sch no.
Borehole(s	s) O	55		6		· N/A	N/A		
Casing(s)	0	45		6		Steel	19LB		
Casing(s)	0	50	·	2		PVC	40		
Screen(s)	50	55		2		PVC	.020		
blank row						-			
	Developed =		.				Material	•	
	Depth to Top (ft.)			ameter		iameter	Bentonite	Neat Cement	Water
	(16.)	(ft.)	(in)		(in)		(lbs.)	(ibs.)	(gal.)
Grout	0	48	6		2		30	564	49
Gravel Pack	48	55	6		2		well gravel		
Grouting M	lethod:	Proceure	thad (Transis	Dinal					
		riessure me	thod (Tremie	ripe)		· · · · · · · · · · · · · · · · · · ·	Drilling Method	d: Air	Rotary
Additional	Information:								
							•		

Additional Information: Attachments:	•		
RECORD OF TEST Test Date: Static Water Level: Pumping Water Level: Water Level Measure Tool: Pumping Equipment: Well Yield:	23 ft. below land surface ft. below land surface tape	Depth to Pump: Pump Capacity: Total Design Head: Pump Horsepower: If pump tested Discharge Rate: Duration of Test Date Boring Decommissioned:	31-7:

PUMPING EQUIPMENT AND ADDITIONAL	Well Development Period:	.5	hours
INFORMATION	Method of Development:	pump	
Installed:	Protective Casing:	No	
Installer's Name:	Drilling Fluid:		
Installer's Registration No.:	Drill Rig:	IRTH10	
Pump Type:	Health and Safety Plan:	No	

GEOLOGI	C LOG			
Depth to Top	Depth to Bottom	Color	USCS	Additional Description
0	38	light brown	GM - Silty gravels, gravel-sand-silt mixtures	cobbles
38	55	grey brown	GP - Poorly graded gravels and gravel-sand mixtures, little or no fines	cobbles boulders



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Last Updated: June 24, 2004

New Jersey State Department of Environmental Protection Bureau of Water Systems and Well Permitting PO BOX 426 Trenton, NJ 08625-0426 Tel: 609-984-6831

Well Permit Number **E201001518**

WELL PERMIT

he New Jersey Department of Environmental Protection grants of accompanying same application, and applicable laws and regulation enumerated in the supporting documents which are agreed to by the	ons. This permit is also	subject to further conditions and stipulations		
Certifying Driller: STEVE YOTCOSKI, JOURNEYMA	N LICENSE # 0001359			
Permit Issued to: HAWK DRILLING, INC.				
Company Address: 93 CEMETERY HILL RD WASHIN	IGTON, NJ 07882			
PROPERTY OWNER				
Name: MOSES BARUCH				
Organization: Moses Baruch	· · · · · · · · · · · · · · · · · · ·			
Address: 115 Columbus Drive	·			
City: Fairfield Twp State: New Jerse	у	Zip Code: <u>07004</u>		
PROPOSED WELL LOCATION Facility Name: Faircorp Associates				
Address: 6 KINGSBRDGE RD FAIRFIELD NJ 07004				
County: Essex Municipality: Fairfield Twp	Lot: 2.03	Block: 2301		
Easting (X): 555964 Northing (Y): 745262 Coordinate System: NJ State Plane (NAD83) - USFEET	Local ID:	MW-KB-1		
SITE CHARACTERISTICS				
ROPOSED CONSTRUCTION	· · · · · · · · · · · · · · · · · · ·			
WELL USE: MONITORING	Other Use(s):			
Diameter (in.): 2	Regulatory Program Requiring Wells/Boring			
Depth (ft.): _50	Case ID Number:			
Pump Capacity (gpm): 0	Deviation Requested:	N		
Drilling Method: Hollow Stem Augers				
Attachments:				
SPECIFIC CONDITIONS/REQUIREMENTS				

Approval Date: February 23, 2010
Expiration Date: February 23, 2011

Approved by the authority of:

Mark Mauriello

Acting Commissioner

John Fields, Acting Bureau Chief Bureau of Water Systems and Well Permitting

Well Permit - Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Systems and Well Permitting PO BOX 426 Trenton, NJ 08625-0426 Tel: 609-984-6831

Well Permit Number **E201001518**

WELL PERMIT

DEVIATION INFORMATION			
Purpose:		:	
Unusual Conditions:			
Reason for Deviation:			
Proposed Well Construction			

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request.

All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq.

For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting.

If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval.

If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed.

In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions

In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq.

The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property.

The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application.

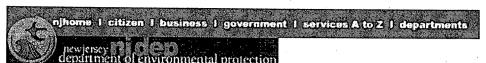
This permit conveys no rights, either expressed, or implied to divert water.

This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained.

This permit is NONTRANSFERABLE

This well shall not be used for the supply of potable / drinking water.

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My Workspace User Profile Certifications **Payments Documents and Forms** Permit Folder Version: 4.7 **HAWD** Currently logged in: Todd Naugle (HAWKDRILLING3) HAWK DRILLING, INC. Help | Logout APPLICATION DISPLAY WELL RECORD SUBMITTAL PDF PROPERTY OWNER: Moses Baruch Organization: Moses Baruch Address: 115 Columbus Drive, Fairfield Twp (Essex), New Jersey 07004 WELL LOCATION: Faircorp Associates Address: 6 KINGSBRDGE RD FAIRFIELD NJ 07004 County: Essex Municipality: Fairfield Twp Lot: 2.03 Block 2301 Easting(X): 555960 Northing(Y): 745260 Coordinate System: NJ State Plane (NAD83) - USFEET **GPS** Method: Point of Reference: Well GPS Manufacturer: magellan Surveyor Name: GPS Model: pro Surveyor License #: Accuracy: Accuracy units: Feet **WELL USE:** Monitoring **DATE WELL STARTED:** 03/25/2010 Other Use(s): **DATE WELL COMPLETED:** 03/25/2010 WELL CONSTRUCTION **Permit Number** Total Depth Drilled(ft): 12 **Drilling Company: TODD NAUGLE** E201001518 Finished Well Depth(ft): 12 Driller Name: Todd Naugle Local ID: MW-KB-1 Well was finished: Flush Mount License No.: 0022207 blank row Depth to Top (ft.) Depth to Bottom (ft.) Diameter (inches) Material Wgt./Rating/Screen Slot # (lbs/sch no.) Borehole(s) 0 12 8 N/A N/A Casing(s) 2 2 **PVC** 40 Screen(s) 12 pvc .020 blank row Material Depth to Top Depth to Bottom Outer Diameter Inner Diameter Bentonite **Neat Cement** Water (ft.) (ft.) (in) (in) (lbs.) (lbs.) (gal.) Grout 0 1 8 2 Gravel 1 12 2 well gravel Pack Grouting Method: Drilling Method: Gravity method Hollow Stem Augers Additional Information: Attachments: RECORD OF TEST Depth to Pump: ft. below land surface Test Date: Pump Capacity: gpm Static Water Level: ft. below land surface Total Design Head: ft. Pumping Water Level: ft. below land surface Pump Horsepower: Water Level Measure Tool: tape If pump tested Discharge Rate: gpm Pumping Equipment: **Duration of Test:** hours Well Yield: Date Boring Decommissioned:

Well Development Period:

.25

hours

PUMPING EQUIPMENT AND ADDITIONAL

INFORMATION

Installed:

Installer's Name:

Installer's Registration No.:

Pump Type:

Method of Development:

Protective Casing:

Drilling Fluid:

Drill Rig:

pump

No

IRTH10

Health and Safety Plan:

No

GEOLOGIC LOG

Depth to Top Depth to Bottom

12

Color

USCS

light brown GC - Clayey gravels, gravel-sand-clay mixtures

Additional Description

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Last Updated: June 24, 2004

New Jersey State Department of Environmental Protection Bureau of Water Systems and Well Permitting PO BOX 426 Trenton, NJ 08625-0426 Tel: 609-984-6831

Well Permit Number **E201001519**

WELL PERMIT

	gulations. This permit is also subject to further conditions and stipulations by the permittee upon acceptance of the permit
Certifying Driller: STEVE YOTCOSKI, JOURNEY	YMAN LICENSE # 0001359
Permit Issued to: HAWK DRILLING, INC:	
Company Address: 93 CEMETERY HILL RD WAS	SHINGTON, NJ 07882
PROPERTY OWNER	
Name: MOSES BARUCH	
Organization: Moses Baruch	
Address: 115 Columbus Drive	
City: Fairfield Twp State: New	Jersey Zip Code: 07004
PROPOSED WELL LOCATION Facility Name: Faircorp Associates	
Address: 6 KINGSBRIDGE RD FAIRFIELD NJ 07004	<u> </u>
County: Essex Municipality: Fairfield Twp	Lot: 2.03 Block: 2301
Easting (X): 556028 Northing (Y): 745271 Coordinate System: NJ State Plane (NAD83) - USFEE	·
SITE CHARACTERISTICS	
PROPOSED CONSTRUCTION	
WELL USE: MONITORING	Other Use(s):
Diameter (in.): 2	Regulatory Program Requiring Wells/Borings:
Depth (ft.): _50	Case ID Number:
Pump Capacity (gpm): 0	Deviation Requested: N
Drilling Method: Hollow Stem Augers	

SPECIFIC CONDITIONS/RE	QUIREMENTS

Approval Date: February 23, 2010
Expiration Date: February 23, 2011

Attachments:

Approved by the authority of:
Mark Mauriello
Acting Commissioner

John Fields, Acting Bureau Chief Bureau of Water Systems and Well Permitting

Well Permit - Page 1 of 2

New Jersey State Department of Environmental Protection Bureau of Water Systems and Well Permitting PO BOX 426 Trenton, NJ 08625-0426 Tel: 609-984-6831

Well Permit Number E201001519

WELL PERMIT

	TY BEEF A DESCRIPTION OF THE PROPERTY OF THE P
DEVIATION INFORMATION	ON .
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	
CENERAL CONDITIONS	PEOLIDEMENTS
GENERAL CONDITIONS/I	
	kept at the worksite / on the property and shall be exhibited upon request.
All well drilling/pump installar	ion activities shall comply with N.J.A.C. 7:9D-1 et seq.
For this permit to remain valid	, the well approved in this permit shall be constructed within one year of the effective date of the permit.
If the pump capacity applied for	or is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of
the Bureau of Water Systems a	
	nanged a well permit for the proposed use of the well shall be submitted for review and approval.
	er intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or
	upply wells), the well must be constructed as a Category 1 well per the Well Construction and
	N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well
	vater supply well, the well must be constructed by a Master well driller, which would include having a
	l times during construction of the well, as specified in the Well Construction and Abandonment
	ew Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new
well would have to be installed	
	operty Owner and Driller agree to abide by the following terms and conditions
In the event this well is abando	oned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a
manner satisfactors to the New	Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et
1	Telsey Department of Environmental Protection in accordance with the provisions of Research 1.55° i.e.
The counting of this permit she	ll not be construed in any way to affect the title or ownership of property, and shall not make the New
I he granting of this permit sha	n not be constitued in any way to affect the flue of ownership of property, and shall not make the frew
Jersey Department of Environ	nental Protection or the State a party in any suit or question of ownership of property.
	Ill not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on
any future application.	
I This permit conveys no rights.	either expressed, or implied to divert water.

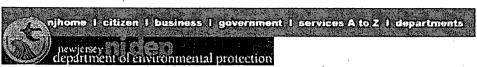
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid

and no work shall be undertaken until such time as all other required approvals and permits have been obtained.

This permit is NONTRANSFERABLE

This well shall not be used for the supply of potable / drinking water.

Skip Navigation





hours

njdep**online**

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My Workspace **User Profile** Certifications **Payments Documents and Forms** Permit Folder Version: 4.7 HAWD Currently logged in: Todd Naugle (HAWKDRILLING3) HAWK DRILLING, INC. Help | Logout

APPLICATION DISPLAY

WELL RECORD SUBMITTAL PDF PROPERTY OWNER: Moses Baruch Organization: Moses Baruch Address: 115 Columbus Drive, Fairfield Twp (Essex), New Jersey 07004 WELL LOCATION: Faircorp Associates Address: 6 KINGSBRIDGE RD FAIRFIELD NJ 07004

County: Essex Municipality: Fairfield Twp 2.03 2301 Easting(X): 556021 Northing(Y): 745277 Coordinate System: NJ State Plane (NAD83) - USFEET Method: **GPS** Point of Reference: Well

GPS Manufacturer: magellan Surveyor Name:

GPS Model: pro Surveyor License #: Accuracy: Accuracy units: Feet

WELL USE: Monitoring **DATE WELL STARTED:** 03/25/2010 Other Use(s): **DATE WELL COMPLETED:** 03/25/2010

WELL CONSTRUCTION **Permit Number** Total Depth Drilled(ft): 12 **Drilling Company: TODD NAUGLE** E201001519 Finished Well Depth(ft): 12 Driller Name: Todd Naugle Local ID: MW-KB-2 Well was finished: Flush Mount License No.: 0022207

blank row Depth to Top (ft.) Depth to Bottom (ft.) Diameter (inches) Material Wgt./Rating/Screen Slot # (lbs/sch no.) Borehole(s) 0 2 N/A N/A Casing(s) 2 2 **PVC** 40 Screen(s) 12 2 .020

blank row Material Depth to Top Depth to Bottom Outer Diameter Inner Diameter Bentonite **Neat Cement** Water (ft.) (ft.) (in) (in) (lbs.) (lbs.) (gal.) Grout 1 8 2 **Gravel** 1 12 8 2 well gravel Pack

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

Additional Information:

Attachments: **RECORD OF TEST** Depth to Pump: Test Date:

ft. below land surface Pump Capacity: gpm

Static Water Level: Total Design Head: 3 ft. below land surface ft. Pumping Water Level: ft. below land surface Pump Horsepower:

Water Level Measure Tool: tape If pump tested Discharge Rate: gpm Pumping Equipment: **Duration of Test:** hours Well Yield: Date Boring Decommissioned:

PUMPING EQUIPMENT AND ADDITIONAL Well Development Period: .25 INFORMATION

Installed:

Installer's Name:

Installer's Registration No.:

Pump Type:

Method of Development:

Protective Casing:

Drilling Fluid:

Drill Rig: Health and Safety Plan: pump

No

IRTH10

No

GEOLOGIC LOG

Depth to Top Depth to Bottom

Color light brown

GC - Clayey gravels, gravel-sand-clay mixtures

Additional Description

Ream -

contact dep | privacy notice | legal statement | accessibility statement (3)



 $\label{eq:department:njdephome | about dep | index by topic | programs/units | dep online statewide: \\ \underline{njhome} | \underline{citizen} | \underline{business} | \underline{government} | \underline{services A to Z} | \underline{departments} | \underline{search} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{citizen} | \underline{c$

Copyright © State of New Jersey, 1996-2004 Department of Environmental Protection P. O. Box 402 Trenton, NJ 08625-0402

Last Updated: June 24, 2004

Name of Owner:

Name of Facility: <u>Unimatic Manufacturing Company</u>

Location: 25 Sherwood Lane, Township of Fairfield, Essex County, New Jersey

NJDEP Incident number: Permit number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owner's Well Number (as shown on application or plans): MW-4A

Geographic Coordinate NAD 83 (to nearest 1/10 of a second):

Longitude: West 74° 16' 08.57" Latitude: North 40° 52' 43.40"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North: 745098.1 East: 555986.1

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 94.86'

Outer Steel Casing: 95.24'

Source of Elevation Datum (Benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.):

The vertical datum is the existing site datum determined from existing monitoring well inner casing elevations provided by the client. Inner casing elevations of MW-1 (99.88') and MW-3 (94.92') were held. Significant observations and notes: A box cut was set as a site benchmark in the top of the concrete steps on the west side of the building. The elevation of the box cut is 99.89' in the site datum, and 188.05' in the North American Vertical Datum of 1988 (NAVD88) GEOID 03. NAVD88 was determined by differential GPS on January 7, 2010 from the NGS CORS Network. Reference Station: NJI2 (Orthometric Height = 164.7674).

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Professional Land Surveyor's Signature

Date

J. Peter Borbas, P.L.S., NJ License No. 31653

rofessional Land Surveyor's Name and License Number

402 Main Street, Boonton, NJ 07005 (973) 316-8743

Name of Owner:

Name of Facility: Unimatic Manufacturing Company

Location: 25 Sherwood Lane, Township of Fairfield, Essex County, New Jersey

NJDEP Incident number: Permit number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owner's Well Number (as shown on application or plans): MW-7

Geographic Coordinate NAD 83 (to nearest 1/10 of a second):

Longitude: West 74° 16' 09.68" Latitude: North 40° 52' 44.58"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North: <u>745217.7</u> East: <u>555900.6</u>

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 93.49'

Outer Steel Casing: 93.85'

Source of Elevation Datum (Benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.):

The vertical datum is the existing site datum determined from existing monitoring well inner casing elevations provided by the client. Inner casing elevations of MW-1 (99.88') and MW-3 (94.92') were held. Significant observations and notes: A box cut was set as a site benchmark in the top of the concrete steps on the west side of the building. The elevation of the box cut is 99.89' in the site datum, and 188.05' in the North American Vertical Datum of 1988 (NAVD88) GEOID 03. NAVD88 was determined by differential GPS on January 7, 2010 from the NGS CORS Network. Reference Station: NJI2 (Orthometric Height = 164.7674).

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Professional Land Surveyor's Signature

1/18/2010 Date

J. Peter Borbas, P.L.S., NJ License No. 31653

Professional Land Surveyor's Name and License Number

402 Main Street, Boonton, NJ 07005 (973) 316-8743 Professional Land Surveyor's Address and Phone Number

Name of Owner:

Name of Facility: Unimatic Manufacturing Company

Location: 25 Sherwood Lane, Township of Fairfield, Essex County, New Jersey

NJDEP Incident number: Permit number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owner's Well Number (as shown on application or plans): MW-8

Geographic Coordinate NAD 83 (to nearest 1/10 of a second):

Longitude: West 74° 16' 09.10" Latitude: North 40° 52' 44.58"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North: <u>745217.7</u> East: <u>555944.9</u>

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 92.93'

Outer Steel Casing: 93.30'

Source of Elevation Datum (Benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.):

The vertical datum is the existing site datum determined from existing monitoring well inner casing elevations provided by the client. Inner casing elevations of MW-1 (99.88') and MW-3 (94.92') were held. Significant observations and notes: A box cut was set as a site benchmark in the top of the concrete steps on the west side of the building. The elevation of the box cut is 99.89' in the site datum, and 188.05' in the North American Vertical Datum of 1988 (NAVD88) GEOID 03. NAVD88 was determined by differential GPS on January 7, 2010 from the NGS CORS Network. Reference Station: NJI2 (Orthometric Height = 164.7674).

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Professional Land Surveyor's Signature

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J. Peter Borbas, P.L.S., NJ License No. 31653
rofessional Land Surveyor's Name and License

rofessional Land Surveyor's Name and License Number

402 Main Street, Boonton, NJ 07005 (973) 316-8743 Professional Land Surveyor's Address and Phone Number

Name of Owner:

Name of Facility:

Unimatic Manufacturing Company

Location:

25 Sherwood Lane, Township of Fairfield, Essex County, New Jersey

NJDEP Incident number:

Permit number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owner's Well Number (as shown on application or plans): MW-9

Geographic Coordinate NAD 83 (to nearest 1/10 of a second):

Longitude: West 74° 16' 08.70"

Latitude: North 40° 52' 44.62"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North: <u>745221.9</u>

East: <u>555975.9</u>

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 91.92'

Outer Steel Casing: 92.24'

Source of Elevation Datum (Benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.):

The vertical datum is the existing site datum determined from existing monitoring well inner casing elevations provided by the client. Inner casing elevations of MW-1 (99.88') and MW-3 (94.92') were held. Significant observations and notes: A box cut was set as a site benchmark in the top of the concrete steps on the west side of the building. The elevation of the box cut is 99.89' in the site datum, and 188.05' in the North American Vertical Datum of 1988 (NAVD88) GEOID 03. NAVD88 was determined by differential GPS on January 7, 2010 from the NGS CORS Network. Reference Station: NJI2 (Orthometric Height = 164.7674).

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Date

1/18/2010

J. Peter Borbas, P.L.S., NJ License No. 31653

Professional Land Surveyor's Name and License Number

402 Main Street, Boonton, NJ 07005 (973) 316-8743

Name of Owner:

Name of Facility: <u>Unimatic Manufacturing Company</u>

ocation: 25 Sherwood Lane, Township of Fairfield, Essex County, New Jersey

NJDEP Incident number: Permit number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owner's Well Number (as shown on application or plans): MW-10

Geographic Coordinate NAD 83 (to nearest 1/10 of a second):

Longitude: West 74° 16' 08.45" Latitude: North 40° 52' 43.98"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North: 745157.3 East: 555995.4

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 93.38'

Outer Steel Casing: 93.63'

Source of Elevation Datum (Benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.):

The vertical datum is the existing site datum determined from existing monitoring well inner casing elevations provided by the client. Inner casing elevations of MW-1 (99.88') and MW-3 (94.92') were held. Significant observations and notes: A box cut was set as a site benchmark in the top of the concrete steps on the west side of the building. The elevation of the box cut is 99.89' in the site datum, and 188.05' in the North American Vertical Datum of 1988 (NAVD88) GEOID 03. NAVD88 was determined by differential GPS on January 7, 2010 from the NGS CORS Network. Reference Station: NJI2 (Orthometric Height = 164.7674).

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1/18/2010 Date

J. Peter Borbas, P.L.S., NJ License No. 31653

rofessional Land Surveyor's Name and License Number

402 Main Street, Boonton, NJ 07005 (973) 316-8743

Name of Owner:

Name of Facility: Unimatic

Unimatic Manufacturing Company

Location:

25 Sherwood Lane, Township of Fairfield, Essex County, New Jersey

NJDEP Incident number:

Permit number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owner's Well Number (as shown on application or plans): MW-KB-1

Geographic Coordinate NAD 83 (to nearest 1/10 of a second):

Longitude: West 74° 16' 09.21"

Latitude: North 40° 52' 45.32"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North: 745291.9

East: <u>555936.4</u>

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 85.64'

Outer Steel Casing: 86.05'

Source of Elevation Datum (Benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.):

The vertical datum is the existing site datum determined from existing monitoring well inner casing elevations provided by the client. Inner casing elevations of MW-1 (99.88') and MW-3 (94.92') were held. Significant observations and notes: A box cut was set as a site benchmark in the top of the concrete steps on the east side of the building. The elevation of the box cut is 99.89' in the site datum, and 188.05' in the North American Vertical Datum of 1988 (NAVD88) GEOID 03. NAVD88 was determined by differential GPS on January 7, 2010 from the NGS CORS Network. Reference Station: NJI2 (Orthometric Height = 164.7674).

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Professional Land Surveyor's Signature

5/24/2010

Date

J. Peter Borbas, P.L.S., NJ License No. 31653

Professional Land Surveyor's Name and License Number

402 Main Street, Boonton, NJ 07005 (973) 316-8743

Name of Owner:

Name of Facility: Unimatic Manufacturing Company

Location: 25 Sherwood Lane, Township of Fairfield, Essex County, New Jersey

NJDEP Incident number: Permit number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owner's Well Number (as shown on application or plans): MW-KB-2

Geographic Coordinate NAD 83 (to nearest 1/10 of a second):

Longitude: West 74° 16' 08.56" Latitude: North 40° 52' 45.27"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North: <u>745287.8</u> East: <u>555986.5</u>

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 85.92

Outer Steel Casing: 86.29'

Source of Elevation Datum (Benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.):

The vertical datum is the existing site datum determined from existing monitoring well inner casing elevations provided by the client. Inner casing elevations of MW-1 (99.88') and MW-3 (94.92') were held. Significant observations and notes: A box cut was set as a site benchmark in the top of the concrete steps on the east side of the building. The elevation of the box cut is 99.89' in the site datum, and 188.05' in the North American Vertical Datum of 1988 (NAVD88) GEOID 03. NAVD88 was determined by differential GPS on January 7, 2010 from the NGS CORS Network. Reference Station: NJI2 (Orthometric Height = 164.7674).

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5/24/2010

Professional Land Surveyor's Signature

Date

J. Peter Borbas, P.L.S., NJ License No. 31653

SEAL

rofessional Land Surveyor's Name and License Number

402 Main Street, Boonton, NJ 07005 (973) 316-8743

Name of Owner:

Name of Facility: Unimatic Manufacturing Company

Location: 25 Sherwood Lane, Township of Fairfield, Essex County, New Jersey

NJDEP Incident number: Permit number:

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owner's Well Number (as shown on application or plans): MW-4B

Geographic Coordinate NAD 83 (to nearest 1/10 of a second):

Longitude: West 74° 16' 08.64" Latitude: North 40° 52' 43.40"

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North: 745097.8 East: 555980.5

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 95.01'

Outer Steel Casing: 95.51'

Source of Elevation Datum (Benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.):

The vertical datum is the existing site datum determined from existing monitoring well inner casing elevations provided by the client. Inner casing elevations of MW-1 (99.88') and MW-3 (94.92') were held. Significant observations and notes: A box cut was set as a site benchmark in the top of the concrete steps on the east side of the building. The elevation of the box cut is 99.89' in the site datum, and 188.05' in the North American Vertical Datum of 1988 (NAVD88) GEOID 03. NAVD88 was determined by differential GPS on January 7, 2010 from the NGS CORS Network. Reference Station: NJI2 (Orthometric Height = 164.7674).

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Professional Land Surveyor's Signature

Date

J. Peter Borbas, P.L.S., NJ License No. 31653

Professional Land Surveyor's Name and License Number

402 Main Street, Boonton, NJ 07005 (973) 316-8743



Monitoring Well Data

Client: GZA GeoEnv	/ironmental	Project: <u>I</u>	Fairfield	Analyst / Field Sampler: D. Nonemaker
				•
Job No: 8817	Date Sampl	ed: 12/10/2009	Weather: Sunny, 35° F	Field Sampler: J. Kates

Well#	PID Reading from Well Casing (ppm)	Depth to water (ft. below TOC)	Depth to bottom (ft. below TOC)
MW-8	0.0	6.82	20.06
MW-7	0.3	7.27	16.81
MW-5	0.0	15.66	26.53
MW-1	0.0	20.21	30.02
MW-4	0.3	15.47	23.72
MW-4D	0.0	15.21	36.20
MW-10	0.0	12.90	18.03
MW-9	0.0	11.27	19.19
MW-6	0.0	13.64	26.60
MW-3	0.0	15.28	29.16

	Site:												Sheet		of	
	s	ite:			Fairfield				Clien	t / Site:	1	GZA G	eoEnviron	mental		
									Field Pen	sonnel:		D.	Nonemak	er		
W	/eath	her:		s	unny, 35°	F				Job#	<u> </u>		8817			
Monitorin	g We	ell #:		MW-1		•	Well Depth:	3	0.02	ft	Scre	ened/Op	en Interval:	-	10.0	ft
Well I	Perm	it #:		NA .		Wel	l Diameter:		2	inches	İ					
PID/FID R (ppm):	eadi	ngs	Backgroun	d:		0.0			Pump Intak	e Depth:		27.6		ft below	тос	
			Beneath O	uter Cap:		0.0		D	epth to Wa	ter Before	Pump inst	allation:	20.2	21	ft below To	ос
			Beneath In	ner Cap:		0.0				Method		adder pur	пр			
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C)	Spec Conduc (us/c	tivity m)	Disso Oxyg (mg/	en 'L')	Posting	tial n	Turbi (NT Reading	U) U	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
	50 X 6.48									:						
1250		Н		NA	13.6	NA .	305	NA .	4.89	NA TO	383.4	NA .	98.7	NA C	200	20.21
1255		Н		-0.19	13.9	0.3	286	-19	4.11	-0.78	-	14.5	86.1	-12.6	200	20.21
1300	×	H	6.11	-0.18	14.4	0.5	270	-16	3.33	-0.78		18.3	71.3	-14.8	200	20.21
1305	X	H	5.99	-0.12	14.6	0.2	291	21	3.20	-0.13	422.1	5.9	34.8	-36.5	200	20.21
1310	X		5.93	-0.06	14.6	0.0	298	7	3.05	-0.15	423.4	1.3	21.4	-13.4	200	20.21
1315	х		5.93	0.00	14.7	0.1	306	8	2.92	-0.13	424.5	1.1	20.2	-1.2	200	20.21
1320	х		5.93	0.00	14.7	0.0	310	4	2.80	-0.12	425.5	1.0	19.4	-0.8	200	20.21
1325	х		5.93	0.00	14.7	0.0	312	2	2.71	-0.09	426.5	1.0	18.9	-0.5	200	20.21
1330		х	5.93	0.00	14.7	0.0	315	3	2.64	-0.07	427.7	1.2	16.9	-2.0	200	20.21
1335	L	x	5.93	0.00	14.7	0.0	316	1	2.58	-0.06	428.0	0.3	15.5	-1.4	200	20.21
												<u> </u>				ļ
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									<u> </u>							
											<u> </u>					
		T														
Commen	ts:	<u>1</u>	И	Purge	started	@ 124	5. Sampl	e time	is 1326.		Sample	ID for	this inter	val is l	MW-1-27	.6
			n ranadad				well was		tore we	knew th	at mutip	ie intei	vais wer	e requ	neu.	

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

	s															
	_	ite:			Fairfield				Clier	nt / Site:		GZA G	eoEnviron	mental		
	Ďa	te:		<u> </u>	2/10/2009				Field Per	sonnel:		D.	Nonemak	ег		
We	eath	ner:		S	un ny, 35° F	-		<u> </u>		Job#			8817			<u> </u>
Monitoring	g We	II #:		MW-1		,	Well Depth:	3	0.02	ft	Scre	ened/Op	en Interval:		0.0	ft
Well P	erm	it #:		NA		We	il Diameter:		2	inches					,	
PID/FID Re (ppm):	eadin		Backgroun	d:		0.0			Pump Intak	e Depth:		22.6		ft below	тос	
			Beneath O	uter Cap:		0.0		. 1	Depth to Wa	iter Befor	e Pump Ins	tallation:	- 20.2	21	ft below TO	ос
			Beneath In	ner Cap:		0.0			Purge	Method		adder pur	np			
TIME	Purging	Sampling	pł (pH u	nits)	Temper (°C Reading)	Spec Conduc (us/c	tivity m)	Dissol Oxyg (mg/	jen /L)	Rede Poten (m\	tial /)	Turbi (NTI Reading	J) Č	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
		°	Reading	Change		Change		Change								
1345	×	-	6.04	NA .	14.0	NA .	265	NA NA	3.42	NA.	422.6	ŅA.,	76.7	NA .	200	20.21
1350	X	Щ	5.90	-0.14	14.2	0.2	257	-8	3.04	-0.38	427.2	4.6	41.3	-35.4	200	20.21
1355	Х		5.90	14.2	0.0	282	25	2.82	-0.22	430.0	2.8	32.3	-9.0	200	20.21	
1400	х		5.87	14.2	0.0	299	17	2.71	-0.11	432.1	2.1	24.7	-7.6	200	20.21	
1405	х					0.0	303	4	2.64	-0.07	433.9	1.8	23.6	-1.1	200	20.21
1410	х		5.87	5.87 0.00 14			305	2	2.55	-0.09	435.3	1.4	22.7	-0.9	200	20.21
1415		x	5.87	0.00	14.2	0.0	309	4	2.48	-0.07	437.1	1.8	21.9	-0.8	200	20.21
1420		х	5.87	0.00	14.2	0.0	312	3	2.40	-0.08	439.8	2.7	19.3	-2.6	200	20.21
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		\vdash	Sat								-					
	\vdash	Н										,		١,	ļ	
Comments				Purge	started @	1340	Sample	time is	1411.		Sample	ID for t	his inten	/alis M	W-1-22	6

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: \pm 0.1 for pH; \pm 3% for Specific Conductivity and Temperature; \pm 10 mV for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

PichTiD Reading PichTiD Re			elso. Fairfial									į		Sheet	1	of .	
Monitoring Well #: NAW Mell Depth: 29.16 R Screened/Open Inferval: 10.0 R		s	ite:			Fairfield			•	Clier	nt / Site:		GZA G	eoEnviron	mental		
Monitoring Well 8:		D	ate:			12/11/2009	9			Field Per	sonnel:		D.	Nonemak	er		. 1
Pictor Description Pictor Picto	W	eati	ner:		S	Sunny, 35°	F				Job#	.		8892	···	-	
Pump Intake Depth							• .	Well Depth:	2	9.16	ft	Scre	ened/Op	en Interval:		10.0	ft
Background: Background: 0.0 Pump Intake Depth: 2.7 R below TOC	Well I	Perm	it #:		NA		We	Il Diameter:		2	inches						
Time Research Purgle Research Purgle Research Research Purgle Research Research Purgle Research	(ppm):	eadi	ngs	Backgroun	d:		0.0		-	Pump Intak	e Depth:	1	21.7		ft below	тос	
Time Fig. Fig. Time				Beneath O	uter Cap:	·	0.0			epth to Wa	ter Befor	e Pump Ins	allation:	15.2	21	ft below To	ос
Time				Beneath In	ner Cap:	-	0.0	6						пр		1	Do-th to
1235 X	TIME	urging	Sampling	6.47 NA 6.43 -0.04		(°c)	Conduc (us/c	ctivity cm)	Oxyg (mg.	jen 'L)	Poten (m\	itial /)	(NT	U) U	Rate	Water (ft below
1240 x 6.43 -0.04 7.9 -0.9 836 -2 3.60 -0.44 363.4 1.2 50.0 -50 200 15.24 1245 x 6.42 -0.01 7.0 -0.9 835 -1 3.56 -0.04 364.5 1.1 32.6 -17 200 15.24 1250 x 6.42 0.00 7.0 0.0 836 1 3.62 0.06 365.3 0.8 31.9 -1 200 15.24 1255 x 6.53 0.11 7.0 0.0 838 2 3.67 0.05 365.9 0.6 22.9 -9 200 15.24 1300 x 6.54 0.01 7.0 0.0 839 1 3.81 0.14 366.6 0.7 22.4 -1 200 15.24 1310 x 6.62 0.03 7.0 0.0 836 -3 3.51 -0.33 366.1 -1.2 20.8 -1 200 15.24 1315 x <		x 6.47 NA 6.43 -0.0															
1250 x 6.42 0.00 7.0 0.0 836 1 3.62 0.06 365.3 0.8 31.9 -1 200 15.24 1255 x 6.53 0.11 7.0 0.0 838 2 3.67 0.05 365.9 0.6 22.9 -9 200 15.24 1300 x 6.54 0.01 7.0 0.0 839 1 3.81 0.14 366.6 0.7 22.4 -1 200 15.24 1305 x 6.69 0.05 7.0 0.0 839 0 3.84 0.03 367.3 0.7 21.6 -1 200 15.24 1310 x 6.62 0.03 7.0 0.0 836 -3 3.51 -0.33 366.1 -1.2 20.8 -1 200 15.24 1315 x 6.67 0.05 7.0 0.0 830 -6 3.50 -0.01 365.0 -1.1 20.1 -1 200 15.24 1316 x x <td></td> <td colspan="3">5 x 6.47 NA 0 x 6.43 -0.0 5 x 6.42 -0.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>15.24</td>		5 x 6.47 NA 0 x 6.43 -0.0 5 x 6.42 -0.0															15.24
1255 x 6.53 0.11 7.0 0.0 838 2 3.67 0.05 365.9 0.6 22.9 -9 200 15.24 1300 x 6.54 0.01 7.0 0.0 839 1 3.81 0.14 366.6 0.7 22.4 -1 200 15.24 1305 x 6.59 0.05 7.0 0.0 839 0 3.84 0.03 367.3 0.7 21.6 -1 200 15.24 1310 x 6.62 0.03 7.0 0.0 836 -3 3.51 -0.33 366.1 -1.2 20.8 -1 200 15.24 1315 x 6.67 0.05 7.0 0.0 830 -6 3.50 -0.01 365.0 -1.1 20.1 -1 200 15.24 1316 x 2 3.50 3.50 -0.01 365.0 -1.1 20.1 -1 200 15.24 1316 x 3.50 3.50 3.50 3.50 <td< td=""><td>1245</td><td>х</td><td colspan="2">6.47 NA 6.43 -0.0 6.42 -0.0 6.42 0.00</td><td>-0.01</td><td>7.0</td><td>-0.9</td><td>835</td><td>-1</td><td>3.56</td><td>-0.04</td><td>364.5</td><td>1.1</td><td>32.6</td><td>-17</td><td>200</td><td>15.24</td></td<>	1245	х	6.47 NA 6.43 -0.0 6.42 -0.0 6.42 0.00		-0.01	7.0	-0.9	835	-1	3.56	-0.04	364.5	1.1	32.6	-17	200	15.24
1300 x	1250	x	6.43 -0.0 6.42 -0.0 6.42 0.00			7.0	0.0	836	1	3.62	0.06	365.3	0.8	31.9	-1	200	15.24
1305 x 6.59 0.05 7.0 0.0 839 0 3.84 0.03 367.3 0.7 21.6 -1 200 15.24 1310 x 6.62 0.03 7.0 0.0 836 -3 3.51 -0.33 366.1 -1.2 20.8 -1 200 15.24 1315 x 6.67 0.05 7.0 0.0 830 -6 3.50 -0.01 365.0 -1.1 20.1 -1 200 15.24 1 0 0 0 830 -6 3.50 -0.01 365.0 -1.1 20.1 -1 200 15.24 1 0	1255	x	6.42 -0.00 6.42 0.00 6.53 0.11		0.11	7.0	0.0	838	2	3.67	0.05	365.9	0.6	22.9	-9	200	15.24
1310	1300	x		6.42 0.00 6.53 0.11 6.54 0.01		7.0	0.0	839	1	3.81	0.14	366.6	0.7	22.4	-1	200	15.24
1315 X 6.67 0.05 7.0 0.0 830 -6 3.50 -0.01 365.0 -1.1 20.1 -1 200 15.24 1 1 1 1 1 1 1 1 1 200 15.24 1	1305	х	Ц	6.59	0.05	7.0	0.0	839	0	3.84	0.03	367.3	0.7	21.6	-1	200	15.24
	1310	L	х	6.62	0.03	7.0	0.0	836	-3	3.51	-0.33	366.1	-1.2	20.8	-1	200	15.24
Comments: Purge began @ 1300. Sample time is 1356.	1315		х	6.67	0.05	7.0	0.0	830	-6	3.50	-0.01	365.0	-1.1	20.1	-1	200	15.24
Comments: Purce began @ 1300, Sample time is 1356.	•		Ш		·							i					
Comments: Purge began @ 1300, Sample time is 1356.												į					
Comments: Purge began @ 1300, Sample time is 1356.																	
Comments: Purge began @ 1300, Sample time is 1356.												:					
Comments: Purge began @ 1300. Sample time is 1356.																	
Comments: Purge began @ 1300. Sample time is 1356.			_														
Comments: Purge began @ 1300. Sample time is 1356.		L	_									i	<u> </u>				
Comments: Purge began @ 1300. Sample time is 1356.	ļ					ļ											
Comments: Purge began @ 1300. Sample time is 1356.												:		-			
Comments Purge began @ 1300. Sample time is 1356.			_														
Comments: Purge began @ 1300. Sample time is 1356.								<u> -</u>				ļ.					<u>. </u>
Sample ID for this interval is MW-3-21.7.	Commen				Samp	le ID for	this int	erval is N	лW-3-2				•				

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: \pm 0.1 for pH; \pm 3% for Specific Conductivity and Temperature; \pm 10 mV for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

										·			Sheet		. of	1
	S	ite:			Fairfield				Clier	nt / Site:	<u> </u>	GZA G	eoEnviron	mental		
	D	ate:			12/11/2009	9		-	Field Per	sonnel:		D.	Nonemak	er		
V	/eatl	ner:		S	unny, 35°	F		<u> </u>		Job#			8892			
Monitorin	g We	ell #:		MW-3		•	Well Depth:	2	9.16	ft	Scre	eened/Op	en interval:		10.0	ft
				NA	-t	We	ll Diameter:		2	inches						
PID/FID R (ppm):	leadi	ngs	Backgroun	nd:		0.0			Pump intak	e Depth:	-:	26.7		ft below	тос	
			Beneath O	uter Cap:		0.0			Depth to Wa	ter Befor	e Pump Ins	taliation:	15.2	21	ft below To	эс
			Beneath In	ner Cap:		0.0		•		Method	В	ladder pui	np	•		
TIME	Purging	Sampling	pt (pH u	nits)	Temper	;)	Spec Conduc (us/c	ctivity :m)	Disso Oxyg (mg/	jen 'L)	Red Poter (m\ Reading	itial /)	Turbi	υ)	Pumping Rate	Depth to Water (ft below
4005		x 6.71 NA 9.5							·						(ml/min)	TOC)
1325				· · · · · ·	NA .	734	NA .	2.83	NA O	368.0	NA .	70.1	NA.	200	15.24	
1330	X	x 6.70 -0.01 9.5 x 6.69 -0.01 9.5			0.0	720	-14	2.75	-0.08	372.0	4.0	180	110	200	15.24	
1335					0.0	717	-3	2.72	-0.03	373.7	1.7	186	6	200	15.24	
1340	x 6.69 -0.01 9.5 x 6.65 -0.04 9.5			9.5	0.0	710	-7	2.85	0.13	376.3	2.6	152	-34	200	15.24	
1345	x 6.65 -0.04 9.5			9.5	0.0	707	-3	2.97	0.12	379.1	2.8	124	-28	200	15.24	
1350	х		6.63	0.00	9.5	0.0	703	-4	3.00	0.03	381.2	2.1	87.4	-37	200	15.24
1355	х		6.63	0.00	9.5	0.0	700	-3	3.15	0.15	382.9	1.7	83.6	-4	200	15.24
1400	х		6.63	0.00	9.5	0.0	699	-1	3.19	0.04	383.5	0.6	81.6	-2	200	15.24
1405		х	6.63	0.00	9.5	0.0	697	-2	3.24	0.05	384.0	0.5	80.1	-2	200	15.24
1410		х	6.63	0.00	9.5	0.0	694	-3	3.29	0.05	385.2	1.2	78.0	-2	200	15.24
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Comment	s:						. Sample erval is M			,						•
RP rea	dings	s are	reported i													

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: \pm 0.1 for pH; \pm 3% for Specific Conductivity and Temperature; \pm 10 mV for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

													Sheet	<u>. 1</u>	of	
	s	ite:			Fairfield			•	Clier	nt / Site:		GZA G	eoEnviron	mental		
	D	ate:			12/11/2009	•			Field Per	sonnel:	- !	F	R. Toogoo	d		
W	eatl	ner:		s	Sunny, 25°	F				Job#			8892			
Monitorin	g We	ılı #:		MW-4		. ,	Well Depth:	2	3.72	ft	Scre	ened/Op	en Interval:		10.0	ft
Well				NA		Wel	I Diameter:		2	inches	!					
PID/FID R (ppm):	eadi	ngs	Backgroun	d:		0.0			Pump Intak	e Depth:		17.5		ft below	тос	
			Beneath O	uter Cap:		0.0			epth to Wa	ter Befor	e Pump Ins	tallation:	15.3	35	ft below To	oc
			Beneath In	ner Cap:		, 0.3			Purge	Method	BI	adder pur	np .	-		
TIME	Purging	Sampling	pH u Hq)	nits)	Temper (°C)	Spec Conduc (us/c	ctivity cm)	Disso Oxyg (mg	jen 'L)	Red Poten (m\	tial /)	Turbi	U) Š	Pumping Rate	Depth to Water (ft below
	5 x 7.08 N				Reading	Change		Change	Reading	Change	;	Change		Change	(ml/min)	TOC)
1015	15 x 7.08 r 20 x 6.87 -0				14.2	NA .	1017	NA	1.36	NA	271.2	NA .	27.5	NA	200	15.39
1020	20 x 6.87 -0. 25 x 6.80 -0.				14.3	0.1	999	-18	1.21	-0.15	262.0	-9.2	41.8	14.3	200	15.39
1025	0 x 6.87 -0.				14.4	0.1	987	-12	1.16	-0.05	254.7	-7.3	52.8	11.0	200	15.39
1030	25 x 6.80 -0.0 30 x 6.77 -0.0				14.3	-0.1	980	-7	1.13	-0.03	251.5	-3.2	47.7	-5.1	200	15.39
1035	5 x 6.80 -0.0 0 x 6.77 -0.0			0.01	14.2	-0.1	977	-3	1.10	-0.03	249.5	-2.0	37.4	-10.3	200	15.39
1040	0 x 6.77 -0.0 5 x 6.78 0.0			-0.01	14.3	0.1	973	-4	1.07	-0.03	248.0	-1.5	33.0	-4.4	200	15.39
1045	х		6.76	-0.01	14.5	0.2	972	-1	1.04	-0.03	245.9	-2.1	28.0	-5.0	200	15.39
1050	x		6.76	0.00	14.4	-0.1	974	2	1.01	-0.03	245.8	-0.1	20.8	-7.2	200	15.39
1055	х		6.76	0.00	14.5	0.1	973	-1	1.00	-0.01	244.0	-1.8	19.5	-1.3	200	15.39
1100	X		6.76	0.00	14.6	0.1	973	0	0.98	-0.02	243.0	-1.0	18.9	-0.6	200	15.39
1105		x	6.77	0.01	14.4	-0.2	973	0	0.96	-0.02	242.4	-0.6	17.8	-1.1	200	15.39
1110		х	6.77	0.00	14.2	-0.2	972	-1	0.94	-0.02	242.3	-0.1	17.6	-0.2	200	15.39
1115		х	6.77	0.00	13.9	-0.3	972	0	0.91	-0.03	241.4	-0.9	16.1	-1.5	200	15.39
1120		х	6.76	-0.01	13.9	0.0	972	.0	0.89	-0.02	240.6	-0.8	15.1	-1.0	200	15.39
1125		х	6.76	0.00	13.8	-0.1	972	0	0.89	0.00	239.3	-1.3	14.2	-0.9	200	15.39
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Comment	s:	ш		Starte	d purging	g at 10	10. Sam	oled at	1101.	I				<u> </u>	<u> </u>	
ORP rea	dina	s an	e reported	relative 1	to the Stan	dard Hvo	irogen Ele	ctrode			1.					

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

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								•					eoEnviron			•
					12/11/2009			•					R. Toogoo	d .		
	/eatl	ner:			Sunny, 25°	F	·····			Job#			8892			•
Monitorin	g We	H#:		MW-4		-	Well Depth:	2	3.72	ft.	Scre	ened/Op	en Interval:	· · ·	10.0	ft
Well PID/FID R				NA	•	We	II Diameter:		2	inches		.,				
(ppm):	Caun	ıyə	Backgroun	id:	-	0.0		<u>.</u>	Pump Intak	e Depth:	:	21.7		ft below	тос	
		•	Beneath O	uter Cap:		0.0	· ·	٠. ا	Pepth to Wa	ter Befor	e Pump Ins	tallation:	15.3	15	ft below To	oc É
			Beneath In	ner Cap:		0.3				Method		ladder pui	mp			
TIME	(pH units) (°C) Reading Change Reading Change Re					Spec Conduc (us/o	ctivity :m)	(mg/	en (L)	Red Poter (m\ Reading	ntial /)	Turbi (NT Reading	J) .	Pumping Rate (ml/min)	Depth to Water (ft below	
1155	5 x 6.80 NA 15.1									·						TOC)
1200	0 x 6.79 -0.01 15						973	NA O	0.89	NA O O O	236.9	NA	161	NA O.4	280	15.41
	x 6.79 -0.01 15.2 0.1				973	0	0.88	-0.01	235.5	-1.4	127	-34	280	15.41		
1205	0 x 6.79 -0.01 15.2 6 x 6.78 -0.01 15.2					991	18	0.90	0.02	233.2	-2.3	66.0	-61.0	280	15.41	
1210	6 x 6.78 -0.01 15.2 0 x 6.79 0.01 15.1				-0.1	996	5	0.91	0.01	233.5	0.3	40.2	-25.8	280	15.41	
1215	×	\dashv	6.78	-0.01	15.2	0.1	996	0	0.90	-0.01	233.7	0.2	40.3	0.1	280	15.41
1220	X	\dashv	6.79	0.01	15.2	0.0	996	0	0.90	0.00	233.5	-0.2	37.3	-3.0	280	15.41
1225	x	_	6.79	0.00	15.2	0.0	996	0	0.91	0.01	233.3	-0.2	37.1	-0.2	280	15.41
1230		×	6.80	0.01	15.0	-0.2	996	0	0.88	-0.03	233.1	-0.2	36.4	-0.7	280	15.41
1235		x	6.80	0.00	14.9	-0.1	996	0	0.87	-0.01	237.9	4.8	34.7	-1.7	280	15.41
1240		х	6.80	0.00	14.9	0.0	996	0	0.87	0.00	237.6	-0.3	32.4	-2.3	280	15.41
1245		х	6.81	0.01	14.9	0.0	996	0	0.86	-0.01	237.0	-0.6	30.9	-1.5	280	15.41
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													· _			
	7	\exists														
comment	B:		J	Strated	d purging	at 115	0. Samp	led at 1	226.						!	

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

											. }		Sheet	1	of	
,	s	ite:			Fairfield				Clier	it / Site:		GZA G	eoEnviron	mental		,
	Da	ate:		,	12/11/2009	•			Field Per	sonnel:		F	R. Toogoo	d		
W	eati	ner:		S	unny, 25°	F		•		Job#	-		8892		•	
Monitoring	g We	II #:		MW-4D		. '	Well Depth:	3	6.20	ft .	Scre	ened/Op	en Interval:		0.0	ft
Well f				NA		Wel	I Diameter:		2	inches	<u> </u>					
PID/FID R (ppm):	eadir	ngs	Backgroun	d:		0.0			Pump Intak	e Depth:	<u> </u>	28.7		ft below	тос	
			Beneath O	uter Cap:		0.0			epth to Wa	ter Befor	e Pump Insi	tallation:	15.1	12	ft below TO	oc i
			Beneath In	ner Cap:		0.0				Method		adder pur	np			
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C)	Spec Conduc (us/c	ctivity m)	Disso Oxyg (mg/	jen 'L)	Red Poten (m)	itial /)	Turbi	υ) ້	Pumping Rate	Depth to Water (ft below
	Ā	σ	Reading	Change	Reading	Change	Reading	Change		Change	Reading	Change		Change	(ml/min)	TOC)
1300	х	_	7.13	NA .	14.6	NA	559	NA .	3.34	NA	303.3	NA .	21.4	NA	240	15.19
1305	х	\dashv	7.10	-0.03	14.3	-0.3	568	9	2.76	-0.58	291.5	-11.8	14.2	-7.2	240	15.19
1310	х		7.10	0.00	14.4	0.1	575	7	2.45	-0.31	293.5	2.0	11.4	-2.8	240	15.19
1315	х		7.09	-0.01	14.4	0.0	579	4	2.34	-0.11	285.0	-8.5	8.56	-2.84	240	15.19
1320	x		7.08	-0.01	14.4	0.0	583	4	2.26	-0.08	280.0	-5.0	6.35	-2.21	240	15.19
1325	х	Ш	7.08	0.00	14.3	-0.1	588	5	2.12	-0.14	277.8	-2.2	6.04	-0.31	240	15.19
1330	x		7.08	0.00	14.4	0.1	589	1 ·	2.10	-0.02	278.8	1.0	4.46	-1.58	240	15.19
1335	x		7.08	0.00	14.2	-0.2	591	2	,2.08	-0.02	275.7	-3.1	3.65	-0.81	240	15.19
1340	x		7.07	-0.01	14.2	0.0	594	3	2.09	0.01	275.0	-0.7	3.36	-0.29	240	15.19
1345	x		7.07	0.00	14.2	0.0	597	3	2.07	-0.02	273.5	-1.5	3.18	-0.18	240	15.19
1350	x		7.07	0.00	14.2	0.0	596	-1	2.06	-0.01	277.3	3.8	3.08	-0.10	240	15.19
1355		х	7.06	-0.01	14.0	-0.2	597	1	1.97	-0.09	275.3	-2.0	2.90	-0.18	240	15.19
1400		x	7.06	0.00	13.8	-0.2	597	0	1.96	-0.01	276.7	1.4	2.86	-0.04	240	15.19
1405		х	7.06	0.00	13.8	0.0	597	0	1.95	-0.01	276.1	-0.6	2.95	0.09	240	15.19
1410		х	7.07	0.01	13.8	0.0	597	0	1.96	0.01	275.4	-0.7	3.07	0.12	240	15.19
								,	,							
											-					
Comment	s:		11	Starte	d purgin	g at 12	55. Sam	oled at	1351.						-	
ORP ma	dina	e an	o renorted	relative 1	to the Stan	dard Hv	trogen Ele	ctrode			1				•	

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

,													Sheet	1	_ of	1
		Site:			Fairfield			- :	Clie	nt / Site:		GZA G	eoEnviror	mental		• .
	D	ate:			12/11/200	9	<u> </u>	-	Field Per	rsonnel:		F	R. Toogoo	d		
W	/eat	her:			Sunny, 25°	F				Job#			8892			
Monitorin	g W	ell#:		MW-4D		•	Well Depth:	3	6.20	_ft :	Scr	eened/Op	en interval:	-	10.0	ft
				NA		We	ll Diameter:		2	inches						
PID/FID R (ppm):	leadi	ngs	Backgroun	ıd:		0.0			Pump Intal	ce Depth:		33.7		ft below	тос	
			Beneath O	uter Cap:		0.0	 		Depth to Wa	iter Befor	e Pump Ins	tallation:	15.1	12	ft below To	oc .
			Beneath In	ner Cap:		0.0		•	Purg	e Method	В	ladder pur	np			
ТІМЕ	Purging	Sampling		nits)	Temper	;)	Spec Conduc (us/c	ctivity :m)	Disso Oxyg (mg	gen /Ľ)	Red Poter (m\	ntial /)	Turbi (NT	U) U	Pumping Rate	Depth to Water (ft below
-	7.09 NA			Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1420	x 7.09 NA x 7.08 -0.01				14.5	NÁ	625	NA .	0.98	NA	263.8	NA	30.5	NA	220	15.19
1425	x	Н	7.08	-0.01	14.4	-0.1	621	-4	1.06	0.08	258.4	-5.4	23.6	-6.9	220	15.19
1430	х	7.09 NA 14.5 7.08 -0.01 14.4 7.09 0.01 14.4				0.0	616	-5	1.14	0.08	255.8	-2.6	21.0	-2.6	220	15.19
1435	х	7.08 -0.01 14.4 7.09 0.01 14.4 7.09 0.00 14.5				0.1	608	-8	1.25	0.11	247.0	-8.8	22.2	1.2	220	15.19
1440	x	Ц	. 7.08	-0.01	14.5	0.0	607	-1	1.31	0.06	250.1	3.1	22.9	0.7	220	15.19
1445	х		7.08	0.00	14.5	0.0	606	-1	1.33	0.02	251.6	1.5	21.7	-1.2	220	15.19
1450		x	7.08	0.00	14.5	0.0	606	0	1.35	0.02	252.1	0.5	20.9	-0.8	220	15.19
1455		х	7.08	0.00	14.4	-0.1	607	1	1.37	0.02	252.3	0.2	19.1	-1.8	220	15.19
1500		x	7.08	0.00	14.4	0.0	606	-1	1.40	0.03	253.4	1.1	18.7	-0.4	220	15.19
1505		x	7.08	0.00	14.4	0.0	606	0	1.44	0.04	254.7	1.3	19.9	1.2	220	15.19
1510		х	7.08	0.00	14.3	-0.1	606	0	1.50	0.06	255.1	0.4	18.0	-1.9	220	15.19
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	\Box						· 	. '	:							
					:.											
Comments	3:			Started	purging	at 141	5. Samp	led at 1	446.							
OPP mad	linas	aro	roported r	nlativo t	the Stand	Ional IJ. ad	Flac									

"INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

													Sheet	1	of	
	S	ite:			Fairfield				Clien	t / Site:		GZA G	eoEnviron	mental		
	Da	ate:			12/10/2009				Field Pen	sonnel:		D.	Nonemak	er		
, w	eath	ier:		s	unny, 35°	F				Job#	† -		8817			
Monitoring	y We	II #:		MW-5		, ·	Vell Depth:	2	6.53	ft	Scre	ened/Op	en Interval:		10.0	ft
Well F	erm	it #:		NA		Wel	l Diameter:		2	inches						'
PID/FID Re (ppm):	eadir	ngs	Backgroun	d:		0.0			Pump Intak	e Depth:		24.0		ft below	тос	
			Beneath O	uter Cap:		0.0			epth to Wa	ter Befor	e Pump Inst	allation:	15.6	6	ft below To	ос
			Beneath In	ner Cap:		0.0			Purge	Method	BI	adder pur	тр			
TIME	Purging	Sampling	pH (pH ur	nits)	Temper (°C	,	Spec Conduc (us/c	tivity m)	Disso Oxyg (mg/	jen 'L)	Red Poten (m\	ntial /)	Turbi (NT	U) ·	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
		Š	7.97 NA 13			Change		Change		Change	1		_	Change		
1030	Х	\vdash	7.36 -0.61 13.4			NA_	700	NA_	7.13	,NA	321.8	NA.	342	NA .	200	15.70
1035	Х	Ц	7.36 -0.61 13.4 7.18 -0.18 13.5			0.4	668	-32	5.92	-1.21	341.6	19.8	276	-66	200	15.70
1040	Х	Ц				0.1	665	-3	5.68	-0.24	350.7	9.1	200	-76	200	15.70
1045	х	Ц	7.18 -0.18 13.5			0.0	664	-1	5.52	-0.16	358.6	7.9	141	-59	200	15.70
1050	х		6.98 -0.20 13.5 6.94 -0.04 13.5			0.0	663	-1	5.46	-0.06	362.3	3.7	91.5	-49.5	200	15.70
1055	х					0.0	662	-1	5.24	-0.22	366.9	4.6	77.4	-14.1	200	15.70
1100	х		6.84	-0.04	13.5	0.0	661	-1	5.11	-0.13	368.5	1.6	71.0	-6.4	200	15.70
1105	Х		6.81	-0.03	13.5	0.0	661	0	5.06	-0.05	369.9	1.4	68.4	-2.6	200	15.70
1110	х		6.79	-0.02	13.5	0.0	661	0	4.93	-0.13	371.3	1.4	66.9	-1.5	200	15.70
1115		х	6.78	-0.01	13.4	-0.1	662	1	4.63	-0.30	373.1	1.8	63.9	-3.0	200	15.70
1120		х	6.77	-0.01	13.4	-0.1	662	1	4.58	-0.05	374.8	1.7	61.4	-2.5	200	15.70
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	L	\vdash			<u> </u>			 				-		-		
				<u> </u>	-44	<u> </u>	Commi	o time	io 1111	<u> </u>	Sample	ID for	this inter	val is *	/\V-5-24	<u> </u>
Comment	s :			Purge Deep	started (interval f	or this	5. Sampl well was	set be	fore we l	knew th						•
000 ma	dina						rdrogen Ele				1					

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

													Sheet		of	
					Fairfield			-	Clies	nt / Site:		GZA G	eoEnviror	mental		-
					12/10/200	9	*.+	- , · ·	Field Per	sonnel:		D.	Nonemal	ker	 .	•
V	Veat	ther:			Sunny, 35°	F		-		Job#			8817			·
Monitorir	ng W	ell#:		MW-ŝ.	-	-	Well Depth:	: <u> </u>	6.53	ft	Scn	ened/Op	en interval:	·	10.0	ft
				NA		_ We	II Diameter:		2	inches						
PID/FID F (ppm):	(ead	ings	Backgroun	id:		0.0		_	Pump Intal	e Depth:		19.0		ft below	TOC	
			Beneath O	uter Cap		0.0	-	6	epth to Wa	ter Befor	e Pump Ins	taliation:	15.6	66	ft below T	ос
		,	Beneath In	ner Cap:		0.0				Method		adder pu	mp			
TIME	Purging	Sampling		nits)	Tempe (°C	:)	Spec Condu (us/c Reading	ctivity em)	Disso Oxyg (mg	jen /L)	Red Poter (m\ Reading	ntial /)	Turbi (NT	U)	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
1130	×	Ĭ			•		·			٠.						
		H	Reading Change Reading 6.81 NA 12.9 6.80 -0.01 12.9		NA O	662	NA .	5.81	NA .	362.0	NA .	446	NA	200	15.70	
1135	X	Н	6.81 NA 12.9		0.0	667	5	5.63	-0.18	371.6	9.6	298	-148	200	15.70	
1140	X	Н				0.0	668	1	5.50	-0.13	373.7	2.1	220	-78	200	15.70
1145	X	Н	6.78	-0.01	13.0	0.1	669	1	5.46	-0.04	376.2	2.5	183	-37	200	15.70
1150	×	Н	6.75	-0.03	13.0	0.0	665	-4	5.08	-0.38	380.0	3.8	122	-61	200	15.70
1155	X	Ц	6.75	0.00	13.2	0.2	665	0 .	4.77	-0.31	381.4	1.4	79.4	-42.6	200	15.70
1200	x	Ц	6.75	0.00	13.2	0.0	664	-1	4.70	-0.07	381.5	0.1	76.1	-3.3	200	15.70
1205	х	Ц	6.75	0.00	13.2	0.0	664	0	4.62	-0.08	381.6	0.1	74.9	-1.2	200	15.70
1210		x	6.75	0.00	13.2	0.0	664	0	4.48	-0.14	382.0	0.4	71.5	-3.4	200	15.70
1215		х	6.75	0.00	13.2	0.0	663	-1	4.37	-0.11	382.6	0.6	69.3	-2.2	200	15.70
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	-	4							-							
Comment	٢		<u>J</u>	Purce	started @	ก 1125		time is	1206		Comple!	D 60= 41	alo leta -		NA 5 40	
									1200.	•	Sample I	u ior ti	us interv	alis M	vv-5-19.	,
JRP read	iings	s are	reported n	elative to	the Stand	lard Hyro	irogen Ele	ctrode								٠

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and + 10% for Dissolved Oxygen and Turbidity

											1		Sheet	1	of	1
	s	ite:			Fairfield				Clien	t / Site:		GZA G	eoEnviron	mental		
	Da	ate:			12/11/2009				Field Per	sonnel:	; 	··	J. Kates			
w	eath	er:	-	s	unny, 25°	F				Job#	! !		8892			
Monitorin	g We	ll #:	. 1	MW-6-19.	1		Well Depth:	2	6.60	ft	Scre	ened/Op	en Interval:		10.0	ft
Well I	erm	it #:		NA		Wel	ll Diameter:		2	inches						
PID/FID R (ppm):	eadir	ngs	Backgroun	d:		0.0			Pump Intak	e Depth:		19.1		ft below	тос	
			Beneath O	uter Cap:	· · · · · · · · · · · · · · · · · · ·	0.0			epth to Wa	ter Before	Pump inst	tallation:	13.5	57	ft below To	oc
			Beneath In	ner Cap:		0.0				Method		adder pur	np		,	
TIME	Purging	Sampling	pH (pH us Reading	nits)	Temper (°C Reading)	Spec Conduc (us/c Reading	:tivity :m)	Dissol Oxyg (mg/ Reading	jen 'L)	Rede Poten (m\ Reading	itial /)	Turbi (NT	ປ) ້	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
1155	×	<u></u>	6.61	NA NA	12.9	NA NA	963	NA .	2.88	NA	346.0	NA .	448	NA	200	13.62
1200	×		6.57	-0.04	12.9	0.0	960	-3	2.12	-0.76	353.3	7.3	242	-206	200	13.62
1205	x		6.52	-0.05	12.5	-0.4	962	2	2.09	-0.03	356.5	3.2	191	-51	200	13.62
1210	х		6.49	-0.03	12.4	-0.1	962	0	1.94	-0.15	358.8	2.3	140	-51	200	13.62
1215	х		6.48	-0.01	12.4	0.0	960	-2	1.95	0.01	359.7	0.9	178	38	200	13.62
1220	x		6.47	-0.01	12.9	0.5	961	1	1.84	-0.11	360.7	1.0	135	-43	200	13.62
1225	x		6.46	-0.01	12.6	-0.3	962	1	1.77	-0:07	361.6	0.9	112	-23	200	13.62
1230	x	L	6.46	0.00	12.8	0.2	966	4	1.79	0.02	359.9	-1.7	91.8	-20.2	200	13.62
1235	х		6.47	0.01	12.9	0.1	962	-4	1.74	-0.05	361.9	2.0	86.7	-5.1	200	13.62
1240	x		6.47	0.00	13.0	0.1	964	2	1.68	-0.06	361.5	-0.4	89.9	3.2	200	13.62
1245		х	6.48	0.01	12.9	-0.1	965	1	1.72	0.04	361.9	0.4	81.2	-8.7	200	13.62
1250	L	х	6.48	0.00	12.9	0.0	965	0	1.70	-0.02	361.3	-0.6	78.1	-3.1	200	13.62
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				Duran	began (a 1150	Sample	a time i	s 1241	<u> </u>	<u> </u>	ļ	<u> </u>	<u> </u>		
Commen									, im Ti.	•						
ORP rea	ıdino	ıs ar	e reported	relative	to the Star	idard Hy	arogen Ele	ctrode			1					

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

				•									Sheet		of of	
		ite:	 ,		Fairfield		** *	·	Clie	nt / Site:		GZA G	eoEnviror	nmental		-
	D	ate:			12/11/200			-	Field Per	sonnel:			J. Kates			-
v	Veat	her:			Sunny, 25°	F			-	Job#			8892			
Monitorir	ıg W	ell#:		MW-6-19.	.1	-	Well Depth:	2	26.60 ·	ft	Scr	eened/Op	eņ Interval:		10.0	ft .
				NA .		. We	Il Diameter:		2	Inches	· :				-	
PID/FID F (ppm):	ceadi	ngs	Backgroun	ıd:	· ·	0.0		-	Pump Intal	e Depth:		24.1	•	ft below	тос	
			Beneath O	uter Cap:	-	0.0	•	. 1	Depth to Wa	ter Befor	e Pump Ins	tallation:	13.6	62	ft below To	ос
	_		Beneath In	ner Cap:	·	0.0	T 6			Method		ladder pu	mp	•	٠.	
TIME	Purging	Sampling	pł (pH u		Temper		Spec Conduc (us/c	ctivity	Disso Oxyg (mg	gen	Red Poter (m)	ntial	Turbi (NT	-	Pumping Rate	Depth to Water (ft below
ļ	ā	S	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1305	x	L	6.48	NA	11.4	NA	975	NA NA	1.78	NA	360.8	NA	1490	NA.	200	13.62
1310	х		6.45	-0.03	13.1	1.7	970	-5	1.57	-0.21	363.0	2.2	3270	1780	200	13.62
1315	x		6.45	0.00	13.4	0.3	969	-1	1.53	-0.04	369.7	6.7	2619	-651	200	13.62
1320	х		6.45	0.00	13.7	0.3	969	0	1.60	0.07	371.3	1.6	1528	-1091	200	13.62
1325	х		6.45	0.00	13.3	-0.4	967	-2	1.70	0.10	372.9	1.6	834	-694	200	13.62
1330	х		6.44	-0.01	13.4	0.1	968	1	1.73	0.03	373.1	0.2	366	-468	200	13.62
1335	х		6.43	-0.01	13.6	0.2	968	. 0	1.76	0.03	372.9	-0.2	253	-113	200	13.62
1340	х		6.43	0.00	13.4	-0.2	971	3	1.74	-0.02	372.5	-0.4	249	-4	200	13.62
1345	х		6.42	-0.01	13,2	-0.2	968	-3	1.65	-0.09	371.5	-1.0	230	-19	200	13.62
1350	х		6.41	-0.01	13.5	0.3	968	0	1.59	-0.06	371.2	-0.3	224	-6	200	13.62
1355	x	Ц	6.41	0.00	13.5	0.0	967	-1	1.62	0.03	371.2	0.0	211	-13	200	13.62
1400		х	6.41	0.00	13.5	0.0	966	-1	1.59	-0.03	371.8	0.6	178	-33	200	13.62
1405		x	6.41	0.00	13.5	0.0	966	. 0	1.56	-0.03	371.5	-0.3	172	-6	200	13.62
								:								
	-								_							
			_		٠,						•			. :		
													1			
	Ц			1												
Comment	s:			Purge	began @	1300.	. Sample	time is	1356.				٠.,			
ORP read	dings	are	reported r	elative to	the Stand	lard Hyd	rogen Elec	trode		,						

'INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

											_ i		Sheet	1	of	
	8	ite:			Fairfield				Clier	nt / Site:		GZA G	eoEnviron	mental		
	D	ate:			12/10/2009	•			Field Per	sonnel:	j.		J. Kates			
W	/eat	ner:		S	Sunny, 35º	F				Job#			8817			
Monitorin	g We	:II #:		MW-7		. '	Well Depth:	1	6.81	ft	Scre	ened/Op	en Interval:		10.0	ft
Well	Perm	it #:		NA		Wel	Il Diameter:		2	inches					•	
PID/FID R (ppm):	eadi	ngs	Backgroun	d:		0.0			Pump Intak	e Depth:		14.5		ft below	тос	
			Beneath O	uter Cap:		0.0			Depth to Wa	ter Before	Pump Ins				•	эс
			Beneath In	ner Cap:		0.3			Purge	Method	BI	adder pur	mp			•
TIME	Purging	Sampling	pH (pH ur	its)	Temper (°C) [Spec Conduc (us/c	ctivity em)	Disso Oxyg (mg/	jen (L)	Red Poten (m\	ntial /)	Turbi (NT	U) Î	Pumping Rate	Depth to Water (ft below
	-	Š	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1200	x	Н	6.54	NA	13.4	NA	543	ŅA	2.86	NA	368.6	NA	430	NA .	240	7.36
1205	x		6.54	0.00	13.8	0.4	538	-5	2.34	-0.52	369.6	1.0	296	-134	200	7.36
1210	x	Ц	6.56	0.02	13.9	0.1	538	0	2.28	-0.06	369.8	0.2	284	-12	200	7.38
1215	x		6.58	0.02	14.0	0.1	531	-7	2.16	-0.12	368.6	-1.2	171	-113	200	7.38
1220	x		6.59	0.01	14.0	0.0	514	-17	1.99	-0.17	366.8	-1.8	93.7	-77.3	200	7.39
1225	x	·	6.54	-0.05	14.0	0.0	476	-38	1.70	-0.29	366.0	-0.8	54.0	-39.7	200	7.40
1230	х		6.45	-0.09	13.9	-0.1	416	-60	1.42	-0.28	366.1	0.1	34.0	-20.0	200	7.40
1235	х		6.36	-0.09	14.0	0.1	383	-33	1.29	-0.13	367.3	1.2	19.8	-14.2	200	7.41
1240	x		6.32	-0.04	14.0	0.0	369	-14	1.25	-0.04	368.4	1.1	15.7	-4.1	200	7.42
1245	x	·	3.61	-2.71	14.0	0.0	365	-4	1.24	-0.01	369.2	0.8	11.9	-3.8	200	7.42
1250	х		6.29	2.68	14.0	0.0	355	-10	1.19	-0.05	370.2	1.0	9.33	-2.57	200	7.44
1255	х		6.26	-0.03	14.0	0.0	343	-12	1.16	-0.03	371.4	1.2	6.09	-3.24	200	7.44
1300	х		6.26	0.00	13.9	-0.1	342	-1	1.18	0.02	371.7	0.3	5.13	-0.96	200	7.44
1305	x		6.24	-0.02	13.9	0.0	336	-6	1.15	-0.03	372.3	0.6	3.13	-2.00	200	7.45
1310	X.		6.23	-0.01	14.0	0.1	330	-6	1.13	-0.02	373.4	1.1	3.27	0.14	200	7.45
1315	x		6.23	0.00	14.1	0.1	331	1	1.17	0.04	373.5	0.1	3.02	-0.25	200	7.46
1320		х	6.23	0.00	14.0	-0.1	330_	-1	1.14	-0.03	374.1	0.6	2.91	-0.11	200	7.46
1325		х	6.22	-0.01	14.0	0.0	327	-3	1.12	-0.02	374.8	0.7	2.80	-0.11	200	7.46
Comment	s:			Purge	began @) 1155	. Sample	time is	1316.	Sampl	e ID for t	this inte	erval is N	/W-7-1	4.5.	·
ORP rea	dina	s are	e reported a	relative to	o the Stan	dard Hvn	drogen Ele	ctrode			i .					

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

	s	ite:			Fairfield				Clier	nt / Site:		GZA G	eoEnviron	mental		
					12/10/2009			•								-
W					Sunny, 35°		· · · · · ·	•	•							•
·							Well Depth:	<u> </u>	6.81				en interval:		10.0	ft
						•	II Diameter:			•	••					."
PID/FID R (ppm):	_	_	Backgroun		:						•*			ft helow	TOC	
uppiny.			- .					•			e Pump Ins					oc
			Beneath In			0.3					В				•	
TIME	Purging	Sampling	pH (pH ui	nits)	Temper)	Spec Conduc (us/c	ctivity cm)	Disso Oxyg (mg	jen (L)	Red Poter (m\	ntial /)	Turbi (NT	U) ·	Pumping Rate	Depth to Water (ft belov
	Ā	Š	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1335	x	Ц	6.10°	NA	13.5	NA	307	NA	1.19	NA	384.8	NA	650	NA	200	7.51
1340	х		6.10	0.00	13.4	-0.1	309	2	1.19	0.00	385.8	1.0	497	-153	200	7.55
1345	х	_	6.11	0.01	13.5	0.1	313	4	1.17	-0.02	388.2	2.4	322	-175	200	7.58
1350	х	_	6.11	0.00	13.4	-0.1	315	. 2	1.18	0.01	390.2	2.0	202	-120	200	7.60
1355	х		6.12	0.01	13.5	0.1	315	0	1.15	-0.03	390.7	0.5	82.9	-119.1	200	7.61
1400	х		6.11	-0.01	13.5	0.0	316	1	1.15	0.00	390.8	0.1	91.1	8.2	200	7.61
1405	"x		6.11	0.00	13.5	0.0	315	-1	1.13	-0.02	391.4	0.6	89.9	-1.2	200	7.66
1410		х	6.11	0.00	13.5	0.0	315	0	1.15	0.02	392.0	0.6	81.9	-8.0	200	7.62
1415		x	6.12	0.01	13.5	0.0	314	-1	1.13	-0.02	392.3	0.3	78.6	-3.3	200	7.63
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Comment	s:			Purge	began @) 1330.	. Sample	time is	1406.	Sampl	e ID for t	his inte	rval is M	IW-7-9	.5.	

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

								· ·			!	4	Sheet	1	. of	
	s	ite:			Fairfield				Clier	t / Site:		GZA G	eoEnviron	mental		
	D	ate:			12/10/2009				Field Per	sonnel:	i *		J. Kates			
w	eati	ner:		s	unny, 35°	F			*	Job#			8817			
Monitorin	g We	:II #:		MW-8	•	. 1	Well Depth:	2	0.06	ft	Scre	ened/Op	en Interval:		10.0	ft
Well I	Perm	it #:		NA		Wel	l Diameter:	<u> </u>	2	inches						
PID/FID R (ppm):	eadi	ngs	Backgroun	d:		0.0			Pump Intak	e Depth:		17.5		ft below	тос	
			Beneath O	uter Cap:		0.0			epth to Wa	ter Before	e Pump inst	tallation:	6.8	2	ft below To	ос
			Beneath In	ner Cap:		0.0		•	Purge	Method	В	adder pur	пр			
TIME	Purging	Sampling	pH (pH ui	nits)	Temper (°C)	Spec Conduc (us/c	tivity m)	Disso Oxyg (mg	len L)	Red Poten (m\	itial /)	Turbi	ບ) ັ	Pumping Rate	Depth to Water (ft below
	۵	S	Reading	Change	Reading	Change	Reading	Cnange	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1000	x	Н	7.23	NA.	14.9	NA	690	NA NA	10.62	NA	306.7	NA .	769	NA	200	6.82
1010	х	Н	6.81	-0.42	14.7	-0.2	659	-31	8.03	-2.59	333.7	27.0	716	-53	240	6.82
1015	х		6.87	0.06	14.7	0.0	649	-10	7.64	-0.39	339.6	5.9	714	-2	240	6.88
1020	х		6.77	-0.10	14.6	-0.1	645	-4	7.37	-0.27	344.2	4.6	549	-165	200	6.86
1025	х		6.80	0.03	14.8	0.2	634	-11	7.32	-0.05	349.1	4.9	512	-37	200	6.86
1030	x		6.78	-0.02	14.8	0.0	629	-5	7.17	-0.15	350.6	1.5	385	-127	200	6.86
1035	х		6.57	-0.21	14.6	-0.2	591	-38	6.76	-0.41	357.6	7.0	186	-199	200	6.87
1040	х		6.51	-0.06	14.8	0.2	576	-15	6.49	-0.27	360.6	3.0	190	4	200	6.88
1045	х		6.47	-0.04	14.8	0.0	571	-5	6.32	-0.17	361.7	1.1	181	-9	200	6.88
1050	х		6.28	-0.19	15.2	0.4	520	-51	5.31	-1.01	365.8	4.1	298	117	200_	6.88
1055	х		6.21	-0.07	14.6	-0.6	511	-9	4.98	-0.33	374.7	8.9	396	98	200	6.89
1100	х		6.20	-0.01	14.7	0.1	512	1	4.97	-0.01	375.1	0.4	385	-11	200	6.90
1105	х		6.20	0.00	14.8	0.1	512	0	4.86	-0.11	375.9	0.8	363	-22	200	6.90
1110		х	6.20	0.00	14.7	-0.1	512	0	4.79	-0.07	376.8	0.9	341	-22	200	6.91
1115	L.	x	6.21	0.01	14.7	0.0	512	0	4.75	-0.04	377.8	1.0	330	-11	200	6.91
														<u> </u>		
			•													
		Г			:											
Comment			–	Purge	began @	0955	. Sample	time is	s 1106.		e iD for	this int	erval is N	/W-8-1	7.5.	*****
			ding. Red e reported						n Notes		-					

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

			*		Fairfield			-	Clien	t / Site:		GZA G	eoEnviron	mental		
	D	ate:			12/10/2009	<u> </u>		-	Field Per	sonnel:			J. Kates			•
V	/eat	her:			Sunny, 35°	F				Job#			8817	<u> </u>		•
Monitorin	g W	ell #:		MW-8			Well Depth:	2	0.06	ft	Scre	ened/Op	en Interval:		10.0	ft
Well	Pern	nit #:		NA		We	ll Diameter:		2	inches	4					
PID/FID R (ppm):						0.0			Pump Intak			.12.5		ft below	тос	
							•		epth to Wa					•	ft below TO	ос
ŀ			Beneath In		,	0.0	٠,	•		Method		adder pur			•	
		Ē		. "	T	-4	Spec		Disso		Red		Tout		Bi.	Depth to
TIME	Purging	Sampling	pH (pH us Reading	nits)	Temper (°C Reading	3)	Conduct (us/c Reading	m)	Oxyg (mg/	L)	Poten (m\ Reading	<u> </u>	Turbi	Ú)	Pumping Rate	Water (ft below
44.05		S													(ml/min)	TOC)
1125	×		6.18	NA	14.6	NA ·	493	NA .	3.53	NA	383.2	NA	866	NA :	200	6.95
1130	x	\vdash	6.14	-0.04	14.3	-0.3	493	, 0.	3.45	-0.08	383.8	0.6	845	-21	200	6.95
1135	x		6.11	-0.03	14.4	0.1	493	0	3.34	-0.11	384.5	0.7	860	15	200	6.95
1140	_	x	6.16	0.05	14.4	0.0	498	5	3.29	-0.05	384.3	-0.2	860	0	200	6.95
1145		х	6.15	-0.01	14.4	0.0	496	-2	3.19	-0.10	384.1	-0.2	849	-11	200	6.95
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Comment	s:			Purge	began @	1120.	Sample	time is	1136.	Sample	e ID for t	his inte	rval is M	W-8-1	2.5.	
ORP read	ding	s are	reported r	elative to	the Stand	lard Hyro	drogen Ele	ctrode					•	•		

'INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: \pm 0.1 for pH; \pm 3% for Specific Conductivity and Temperature; \pm 10 mV for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

						•					i		Sheet		of	
	s	ite:						•	Clier	it / Site:	-	GZA G	eoEnviron	mental		
	Đ	ate:			12/11/2009)			Field Per	sonnel:	! :	D.	Nonemak	er		
W	eath	ner:		s	unny, 35°	F				Job#	!		8892			
Monitorin	g We	ll #:		MW-9		. \	Well Depth:	1	9.19	ft	Scre	ened/Op	en Interval:		0.0	ft
Well F				NA		Wel	l Diameter:		2	inches					· · · · · · · · · · · · · · · · · · ·	
PID/FID Ro (ppm):	eadii		Backgroun	d:		0.0			Pump Intak	e Depth:	: 	12.8		ft below	тос	
			Beneath O	uter Cap:		0.0			epth to Wa	ter Before	e Pump Inst	allation:	11.4	18	ft below To	эс
			Beneath In	ner Cap:		0.0	Spec	ifia	Purge Disso	Method	Rede	adder pur	np		ır	Depth to
TIME	Purging	Sampilng	pH (pH ur	nits)	Temper (°C)	Conduc (us/c	tivity m)	Oxyg (mg/	en L)	Poten (mV	tial ()	Turbi (NT	ע) ֿ	Pumping Rate	Water (ft below
	ď	Š	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	(ml/min)	TOC)
1020	х		7.99	NA	8.0	NA	888	NA	3.62	NA.	280.0	NA	991	NA	100	11.55
1025	х		7.86	-0.13	8.3	0.3	864	-24	2.94	-0.68	277.7	-2.3	904	-87	100	11.63
1030	х	Ц	7.44	-0.42	9.9	1.6	859	-5	2.43	-0.51	277.4	-0.3	938	34	100	11.70
1035	х		7.13	-0.31	11.5	1.6	846	-13	1.66	-0.77	274.7	-2.7	1220	282	100	11.77
1040	x		6.94	-0.19	12.0	0.5	834	-12	1.48	-0.18	277.6	2.9	1640	420	100	11.84
1045	х	Щ	6.79	-0.15	12.3	0.3	830	-4	1.59	0.11	286.5	8.9	2692	1052	100	11.91
1050	х		6.64	-0.15	12.3	0.0	833	3	1.89	0.30	294.6	8.1	2408	-284	100	11.99
1055	х		6.61	-0.03	12.3	0.0	835	2	2.33	0.44	305.7	11.1	2316	-92	100	12.07
1100	х	_	6.60	-0.01	12.3	0.0	837	2	2.41	0.08	308.2	2.5	2412	96	100	12.15
1105	х		6.61	0.01	12.3	0.0	838	1	2.50	0.09	311.4	3.2	2530	118	100	12.22
1110		x	6.63	0.02	12.3	0.0	839	1	2.64	0.14	316.2	4.8	2611	81	100	12.29
1115		x	6.67	0.04	12.3	0.0	840	1	2.78	0.14	319.7	3.5	2684	73	100	12.36
1120		x	6.69	0.02	12.3	0.0	841	1	2.83	0.05	322.6	2.9	2758	74	100	12.43
1125		х	6.72	0.03	12.3	0.0	842	1	2.94	0.11	325.0	2.4	2836	78	100	12.50
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,																
Comment	s:		-		began @ le ID for											
ORP rea	dina	s an	e reported	•					۷.0.							

^{*}INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

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		Site:			Fairfield	· · ·	٠	_	Clier	nt / Site:		GZA G	eoEnviron	mental		•
	D	ate:		٠	12/11/200	9		· -	Field Per	sonnel:		D.	. Nonemak	er		
	/eat	ner:			Sunny, 35°	F .		-		Job#	<u>_</u>		8892			•
Monitorin	g We	ə[l #:		MW-9		_	Well Depth:	1	9.19	ft	Scr	eened/Op	en Interval:		10.0	ft
Well	Perm	it #:		NA		We	II Diameter:		2	inches						
PID/FID R (ppm):	eadi	ngs	Backgroun	ıd:		0.0			Pump Intak	e Depth:		17.8		ft below	тос	
			Beneath O	uter Cap:		0.0			Depth to Wa	ter Befor	e Pump Ins	tallation:	11.4	48	ft below To	DC
			Beneath In	ner Cap:		0.0		-	Purge	Method	В	ladder pui	тр			
TIME	Purging	Sampling	pH us	nits) 😬	Temper	;)	Spec Conduc (us/c	ctivity :m)	Dissol Oxyg (mg/	jen (L)	Red Poter (m)	ntial V)	Turbi (NT	U) .	Pumping Rate	Depth to Water (ft below
		s	Reading			Change	Reading	Change	Reading	Cnange	Keading	Change	Reading	Change	(ml/min)	TOC)
1135	X	_	6.62	NA	11.4	NA.	840	NA	2.82	. NA	341.2	NA	3712	NA	100	12.05
1140	х		6.60	-0.02	13.0	1.6	842	2	2.88	0.06	345.1	3.9	1480	-2232	100	12.10
-1145	х	-	6.59	-0.01	13.7	0.7	846	4	2.91	0.03	347.8	2.7	1352	-128	100	12.15
1150	х		6.57	-0.02	13.7	0.0	846	0	3.06	0.15	350.0	2.2	1342	-10	100	12.15
1155	x		6.55	-0.02	13.7	0.0	847	1	3.19	0.13	354.1	4.1	1240	-102	100	12.15
1200		х	6.58	0.03	13.7	0.0	848	1	3.41	0.22	358.4	4.3	1183	-57	100	12.15
1205		х	6.59	0.01	13.7	0.0	.849	-1	3.50	0.09	360.9	2.5	1146	-37	100	12.15
1210		x	6.61	0.02	13.7	0.0	852	3	3.73	0.23	465.6	104.7	1113	-33	100	12.15
1215		х	6.62	0.01	13.7	0.0	853	1	3.82	0.09	367.1	-98.5	1084	-29	100	12.15
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	\exists					,										
Comment	s:				began @											—
ORP read	dina	e arc			e ID for t				7.8.							

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mV for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

													Sheet	1	of	
	s	ite:			Fairfield			•	Clien	nt / Site:	-	GZA G	eoEnviron	mental	-	
					12/11/2009		-,		Field Per	sonnel:	1		J. Kates	•		
W	eatt	er:		s	unny, 25°	F		·		Job#	-		8892			<u> </u>
Monitoring	g We	II #:	. N	IW-10-15	.7	. '	Well Depth:	1	8.03	ft	Scre	ened/Op	en Interval:	1	10.0	ft .
Well I				NA		Wel	l Diameter:		2	inches						
PID/FID R (ppm):	eadiı	ngs	Backgroun	d:		0.0	<u> </u>		Pump Intak	e Depth:		15.7		ft below	тос	
			Beneath O	ıter Cap:		0.0			epth to Wa	ter Before	Pump Inst	allation:	13.3	3	ft below To	эс
			Beneath In	ner Cap:		0.0			Purge	Method	ВІ	adder pur	np			
TIME	Purging	Sampling	pH (pH ur	ılts)	Temper (°C Reading)	Spec Conduc (us/c	tivity m)	Dissol Oxyg (mg/	jen 'L)	Rede Poten (mV	tial)	Turbic (NT) Reading	u) i	Pumping Rate (ml/min)	Depth to Water (ft below TOC)
	_	8	Reading	Change		Change	Reading	Change		Change		Change		Change		
1020	х		6.69	NA ·	7.0	NA NA	861	NA .	5.31	NA	304.8	NA	436	. NA	100	13.41
1025	х		6.43	-0.26	11.7	4.7	752	-109	4.73	-0.58	316.4	11.6	249	-187	200	13.56
1030	х	Ц	6.44	0.01	13.2	1.5	746	-6	4.86	0.13	325.3	8.9	54.0	-195.0	200	13.56
1035	х		6.21	-0.23	13.4	0.2	745	-1	4.78	-0.08	330.1	4.8	18.6	-35.4	200	13.56
1040	х		6.23	0.02	13.4	0.0	747	2	4.88	0.10	332.9	2.8	11.5	-7.1	200	13.56
1045	x		6.33	0.10	13.4	0.0	. 747	0	5.12	0.24	336.3	3.4	7.55	-3.95	200	13.56
1050	х	Ц	6.48	0.15	13.5	0.1	747	0	5.21	0.09	338.0	1.7	5.52	-2.03	200	13.56
1055	X		6.33	-0.15	13.3	-0.2	746	-1	5.38	0.17	339.7	1.7	3.59	-1.93	200	13.56
1100	х	Щ	6.29	-0.04	13.5	0.2	748	2	5.47	0.09	341.2	1.5	2.96	-0.63	200	13.56
1105	х		6.34	0.05	13.5	0.0	748	0	5.53	0.06	342.3	1.1	2.88	-0.08	200	13.56
1110	х		6.38	0.04	13.6	0.1	747	-1	5.31	-0.22	343.6	1.3	2.79	-0.09	200	13.56
1115		х	6.38	0.00	13.6	0.0	747	0	5.26	-0.05	344.0	0.4	2.35	-0.44	200	13.56
1120		x	6.40	0.02	13.6	0.0	748	1	5.20	-0.06	344.6	0.6	2.28	-0.07	200	13.56
													<u> </u>			
								<u> </u>								ļ
<u> </u>																
											:					
Commen	s:			Purge	began (2) 1015	. Sample	time is	s 1111.		1					
ORP rea	ding	s an	e reported	relative t	to the Stan	dard Hyd	drogen Ele	ctrode			1					

INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: \pm 0.1 for pH; \pm 3% for Specific Conductivity and Temperature; \pm 10 mV for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

TestAmerica Edison

DATE:	12/10/2009	CLIENT:	GZA Geo	Environmental	SITE:	Fairfield	
WEATHER:	Sunny, 35F	ARRIVAL:	0830	DEPARTURE:	1445	JOB #:	8817
ANALYS	T / FIELD SAMPL	. ER: D	. Nonemaker	FIELD S	SAMPLER:	J. Kates	
	•	_FIELD INS	STRUMENT A	ND CALIBRATIC	N DATA		
	METER	METER ID'S	PROBE	•	ĊΔLIF	BRATION NOTES	
DO	M-015		MP-104			temperature com	
pH .	M-031	<u> </u>	MP-102			ation check is not r	
COND.	M-014	<u>·, </u>	MP-101		rela	ative to the SHE	
ORP	M-006		MP-067				
TURBIDITY	M-009						
	DISSOLVED	OXYGEN		* * *	TURB	DITY	
_	Water Temp		l.1	Set to	10.00 NTU 1 1.00 NTU	10.00	
Baror	netric Press (mm		50	Read	1 1.00 NTU	1.00	
	O2 Saturatio	9N %1	00		•		
		•		оН			
			•	· ·	Lot # and Ex	piration Date	
Buffer 4.00	4.01	Temp (°C)	13.1	•		05/2013	
Buffer 7.00		Temp (°C)	13.0	·	A9218		
Buffer 10.00	10.14	Temp (°C)	13.8		A9219		
Calibration p	performed at		0830	•			
•		ORP					
pH buff w/quinh		96.0	Temp (°C)	11.0			
pH buff		50.0					
w/quinh	ydrone	266.5	Temp (°C)	12.1		• .	
	SPECIFIC	CONDUCTAN	ICE				
				Lot # and Expiration	n Date		
	Standard 1000 ±	± 10 uS/cm NaCl		A9015 01/201			
	Reading	1000			-		
	Temp (°C)	13.4	-	•	•	,	
·.			•				
	NOTES:					,	
	NOTES:					<u></u>	
				· · · · · · · · · · · · · · · · · · ·	•		
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						2-	
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			-				
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TestAmerica Edison

DATE:	12/10/2009	CLIENT	: GZA G	eoEnvironme	ental	_ SITE:	Fairfield	
WEATHER:	Sunny, 35° F	ARRIVAL	.:0845	DEI	PARTURE	1445	JOB #:	8817
ANALYS	ST / FIELD SAMPLER	i	J. Kates	-	FIELD	SAMPLER:	D. Nonemak	er
			-			·		
	· M	ETER ID'	s					
	METER		PROB	E	:	CAL	BRATION NOTES	S :
DO	M-043	.	MP10	5	!	* All meters ar	re temperature con	pensating
pН	E-016	-	MP-10				ration check is not	
COND.	M-024		MP-08		1	re	lative to the SHE	
ORP TURBIDITY	M-036 M-021	-	MP-10	<u>6</u>	i			
	DISSOLVED O	XYGEN	•			TURE	BIDITY	
	Water Temp (°C)		0.4		Set to	10.00 NTU	10.00	
Baror	netric Press (mm Hg)	7	50			d 1.00 NTU	1.00	
	O2 Saturation %	·1	00					
				рН		•	•	
						Lot # and E	xpiration Date	
Buffer 4.00	4.00	_Temp (°C)	10.8			A9141	05/2013	
Buffer 7.00	7.01	Temp (°C)	10.6			A9218	08/2011	
Buffer 10.00	10.17	_Temp (°C)	10.5		:	A8338	12/2009	
Calibration p	performed at	000	0850		!			•
pH buff	or 7 00	ORP			;			•
w/quinh	ydrone 9	8.6	_Temp (°C)	10.6		_		
pH buff w/quinh		78.1	_Temp (°C)	10.9		_		
	SPECIFIC CO	NDUCTA	- <u> </u>		, ;			
	01 2011 10 00	IDOOIA		Lot # and	Expiratio	n Date		
	Standard 1000 ± 10	uS/cm NaC	<u>. </u>		0 04/201			
	Reading 1		_					
	Temp (°C)1	1.0	-		1			
				•				
	NOTES: DO Recali	bration: Time	e = 1005, Wate	r Temp. (°C)	= 10.8.Pre	essure (mmHa) :	= 750. O2 Saturation	on = 100
					1			
			·		<u> </u>			
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· · · · ·								
								
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TestAmerica -Edison

	•						
DATE:	12/11/200	9 CLIENT:	GZA GeoEnv	ironmental, Inc.	SITE:	Fairfield	<u> </u>
WEATHER:	Sunny, 25°	F ARRIVAL:	0900	DEPARTURE:	1500	JOB #:	
ANALYS	ST / FIELD SAMI	PLER:	R. Toogood	FIELD	SAMPLER: D	. Nonemaker, K.	Kates
		<u> </u>					
		EIEI D ING	TOUMENT AL	ID CALIDDATIC	ON DATA		
		FIELD INS	IKUMENI AN	ID CALIBRATIO	DATA		
		METER ID'S	•			•	4
	METER	WEI ER ID	PROBE	. ,	CALIBE	RATION NOTES	
DO .	M-027		MP-081		* All meters are t		-
рΗ	M-016		MP-109	•			
COND.	M-018	<u> </u>	MP-061				
ORP TURBIDITY	M-017 M-008		MP-094				
, IUKBIDII	<u></u>	 ,					
	DISSOLVE	D OXYGEN			TURBID	ITY	
	Water Tem		.1	Set to	10.00 NTU	10.00	
Baror	netric Press (m				1.00 NTU		
	O2 Saturat	ion % 10	0		•		•
			p	H ·			
				•	Lot # and Exp	iration Date	
Buffer 4.00	4.00	Temp (°C)	13.1		A9141 0	5-2013	
Buffer 7.00	7.00	Temp (°C)	12.5	<u> </u>	A9218 0	8-2011	
3uffer 10.00	10.15	. Temp (°C)	11.6		A9219 0	8-2010	,
Calibration p	performed at		0920				3
•		ORP.					
pH buff			·				
w/quinh pH buff		335.3	Temp (°C)	13.0			
w/quinh		506.2	Temp (°C)	13.3		•	
					•		
	SPECIFIC	CONDUCTAN	CE				
			· Lo	ot # and Expiration	n Date		
		<u>+ 10 uS/cm NaCl</u>		A8322 11-201			
	Reading	1000	<u> </u>				
	Temp (°C)	10.9				•	
				•	•		
		•					
	NOTES: ORP	calibration reading	s have been repor	ted relative to the S	Standard Hydrogen	Electrode.	
		 			· · · · · · · · · · · · · · · · · · ·		
	·			· · · · · · · · · · · · · · · · · · ·	·		
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						······································	

DATE:	12/11/2009	CLIENT	: GZA GeoEnvi	ronmental, Inc.	SITE:	Fairfield			
WEATHER:	Sunny, 25° F	ARRIVAL	:0900	DEPARTURE:	1500	JOB #:			
ANALYS	T / FIELD SAMPLE	R:	J. Kates	FIELD S	SAMPLER: D. Nonemaker, R. Toogood				
		FIELD IN	STRUMENT AN	ID CALIBRATIO	ON DATA				
		METER ID'	S						
_	METER		PROBE	<u></u>	CALI	BRATION NOTES	S :		
DO	M-043	<u> </u>	MP-105		* All meters are	e temperature con	pensating		
pH .	E-016		MP-107	· · ·					
COND.	M-024	 .	MP-083	 :			·		
ORP TURBIDITY	M-036 M-021		MP-106						
TORBIDITT .									
	DISSOLVED				TURB	IDITY			
	Water Temp (^c		0.2		10.00 NTU	10.00	•		
Baron	netric Press (mm H	· · · · · · · · · · · · · · · · · · ·	65	Read	1.00 NTU	1.00	•		
	O2 Saturation	% <u> </u>	00	1					
			pl	Н					
					Lot # and E	xpiration Date			
Buffer 4.00	4.01	Temp (°C)	10.1		A9141	05/2013	_		
Buffer 7.00	7.04	Temp (°C)	10.1			08/2011			
Buffer 10.00	10.18	Temp (°C)	10.8			12/2009	•		
Calibration p	erformed at		0910			٠			
		ORP		i i					
pH buffe w/quinhy		329.7	Temp (°C)	10.8					
pH buffe	er 4.00			i	•				
w/quinhy	ydrone	501.4	_Temp (°C)	10.3	-		•		
	SPECIFIC C	ONDUCTA	NCE	;					
			L	ot # and Expiratio	n Date				
	Standard 1000 ±		<u> </u>	A9120 04/201	4				
	Reading		_	1					
	Temp (°C)	10.5	_	:					
			•	į			•		
	NOTES: ORP ca	libration readir	igs have been repo	rted relative to the	Standard Hydrog	en Electrode.			
	 								
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DATE:	12/11/2009	CLIENT:	GZA GeoEnvir	onmental, Inc.	SITE:	Fairfield		
WEATHER:	Sunny, 35° i	ARRIVAL:	0900	DEPARTURE:	1500	JOB #:	8892	
ANALYS	ST / FIELD SAMP	LER: D	Nonemaker	FIELD S	SAMPLER:	J. Kates, R. Toogo	od	
					4	-		
		FIELD INS	TRUMENT AN	D CALIBRATIC	N DATA			
		METER ID'S	•					
	METER		PROBE	-	CALI	BRATION NOTES:		
DO	M-015		MP-104		* All meters are	e temperature compe	ensating	
pH	M-031		MP-102					
COND. ORP	M-014		MP-101	 .				
TURBIDITY	M-006 M-009		MP-067					
	DISSOLVE	D OXYGEN			TURB	IDITY		
	Water Temp		q	Set to	10.00 NTU			
Baro	metric Press (mn				1.00 NTU			
	O2 Saturati		0	, , , , , , ,				
			рΗ	1				
					Lot # and Ex	xpiration Date		
Buffer 4.00	4.01	Temp (°C)	. 13.0	 .	A9141	05/2013		
Buffer 7.00	7.04	Temp (°C)	12.8		A9218	8 08/2011		
Buffer 10.00	10.12	Temp (°C)	13.9	 · .	A9219	082010		
Calibration _I	performed at	ORP	0900					
pH buff			- 4-:					
w/quinh pH buff	fer 4.00		Temp (°C)			• • • • • • • • • • • • • • • • • • • •		
w/quinh	nydrone	267.5	Temp (°C)	13.7	•			
	SPECIFIC	CONDUCTAN	CE			•		
	Standard 1000	± 10 uS/cm NaCl	Lo	t # and Expiration A9015 01/201				
	Reading			A3013 01/2014	<u></u>			
	Temp (°C)				•			
	NOTES:							
·								
		· · · · · · · · · · · · · · · · · · ·			•			
		· · · · · · · · · · · · · · · · · · ·					•	







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J. O				

SHEET ___OF

SITE: DATE: WEATHI	ER:	X	4-19-	10	ve , FAIR Breeze		σ.		CONSULT	ING FIRM: RSONNEL:	GZA- APL-	C. FAI WG-RYA	NG- N			,
MONITO WELL PE			L#: AN L	1-13		ELL DEPTI	H: 55,0	inches			SCREE	NED/OPEN	INTERVAL:	50-5	5	
PID/FID I	REA	DI	VGS (ppm):	BENEAT	OUND: H OUTER CA H INNER CA				IP INTAKE I				1. <u>/Y.//</u> n	below TOC		
٠	SPECIFIC REDOX ON PH CONDUCTIVITY POTENTIAL (pH units) (mS/cm) (mv)					ENTIAL	ox	OLVED YGEN 19/1)	1 .	TURBIDITY (NTU)		TEMPERATURE (degrees C)		DEPTH TO WATER (ft below		
3'.15	Z X	SA	7195	CHANGE*	0.666	CHANGE*	READING	CHANGE*	READING 4,48	CHANGE*	READING	CHANGE*	READING	CHANGE*	RATE (mi/min)	TOC)
13:20	X		7.82		0653		383		7:06	_	5.0		12.07			14,13
3'.25	X		7.62	,	0.660		344		0.76		5.0		11.52		1/	14.13
3'.30	X	-	1,45		0.662		353		0,41	,	5.0		11.50	·	11	14,13
3'.35	X	7	7.41	,	0466		345		0,17		943,0		11.63		リ	14,13
3.40 3.45			7.46		0.670		337 333		0.00		848,0 787.6		11.25			14.13
3:50	(7,50		0,675		333		0.00		787.0		11-20		11	14.13
3:55	X		7,51	<u> </u>	1676		333	-	500		780.0		11-//			4.13
	+						· · ·						_			

Calculate change by subtracting current reading from previous reading. When 3 consecutive readings are +/- 0.1, pH is considered stabilized

Calculate percent by dividing current reading by previous reading and multiplying by 100. When 3 consecutive readings are between 97 and 103 percent, specific conductivity is considered stabilized

^{*} Calculate change by subtracting current reading from previous reading. When when 3 consecutive readings are +/- 10 mv, redox potential is considered stabilized

^{**} Calculate percent by dividing current reading by previous reading and multiplying by 100. When 3 consecutive readings are between 90 and 110 percent, these parameters are considered stabilized

OMMENTS:

LOW FLOW SAMPLING DATA SHEET

	1		1
SHEET		OF.	<u>L.</u>

MONITO	RMIT		BACKGR	WELL	ELL DEPTH DIAMETER	: <u>12.00</u> : <u>2</u>	inches	P INTAKE D	ертн:7.0	0 ft below	TOC		2-12			
			BENEAT)	I OUTER CA I INNER CA SPE		1	DEPT DOX ENTIAL	DISS	ER BEFORE OLVED (GEN	PUMP INST	GLLATION		below TOC	PUMPING	DEPTH TO	
	PURGING	(pH	pH units)	(mS	i/cm) .	(r	ทง)	(17	g/I)	l .	TU)	(degr	ees C) CHANGE*	RATE (ml/mln)	(ft below	
12'05	X 2	7.06	CHANGE*	READING	CHANGE*	FEADING	CHANGE*	7/22	NA NA	-5.0	NA NA	12.74	NA	100 ML/M		
	X	7.02		3,21		484		7.12		-5.0		2.10		η	3.65	
12'.10 V.15		6.95		3.27		464		7.06		960.0		11.80		11	3170	
2.20	X	6,93		3.32		453		7.15		908.0		11.79		11	3,77	
2:25		6.92		3,37		449		6.95		918,0	,	11.4/		11	3,77	
21.30	7	4.91		3.37		444		6.90	*	920.0		11.45	·	11	3,79	
2'-35	×	6.91		3.37		442		6.85	•	921.0		11.50		17	381	
<u> </u>		' '							•		·					
	\dashv	•	·.													
						· · · · · · · · · · · · · · · · · · ·										

Calculate change by subtracting current reading from previous reading. When 3 consecutive readings are +/- 0.1, pH is considered stabilized

Calculate percent by dividing current reading by previous reading and multiplying by 100. When 3 consecutive readings are between 97 and 103 percent, specific conductivity is considered stabilized

^{*} Calculate change by subtracting current reading from previous reading. When when 3 consecutive readings are +/- 10 mv, redox potential is considered stabilized

Calculate percent by dividing current reading by previous reading and multiplying by 100. When 3 consecutive readings are between 90 and 110 percent, these parameters are considered stabilized

OMMENTS:

LOW FLOW SAMPLING

0040620

SHEET OF

SITE: DATE:		L	へいひゃ げ	NO LANE	FAIRFI	EU, W	<i>f</i>		CONSULTI FIELD PER	ng firm: _ sonnel: _	GZA-1 APL-1	C. FAN W.G. RY	AN			,
MEATHE MONITO WELL PE	R W	YELI	.#: <u>¥</u>	B-1	w	ELL DEPTH DIAMETER		inches					NTERVAL:	2-1	2	
PID/FID F	REA	DIN	GS (ppm):		OUND: I OUTER CA I INNER CA			PUM DEPT	P INTAKE D	EPTH: 7,0 ER BEFORE	ft below	TOC ALLATION	: <u>4 .00</u> ft	below TOC		
	SPECIFIC REDOX CONDUCTIVITY POTENTIAL (pH units) (mS/cm) (my) TIME TO READING CHANGE* READING CHANGE*				NTIAL	- ox	OLVED YGEN 19/I)	TURBIDITY (NTU)		(degr	RATURE ees C)	PUMPING RATE	DEPTH TO WATER (ft below			
TIME 18.50	1	SA	READING	CHANGE*	READING	CHANGÉ*	FAPING	CHANGE*	READING 348	CHANGE*	reading	CHANGE*	JZ183	CHANGE*	(ml/min)	3.89
10:55	1		675		1,09		457		3.51		522.0		2.32		1	3.95
11:00	X		677		1.10		451		3,50		524.6		12.26		ıl	4,00
11:05	X		6.79		1.09		442		3.42		538,0		12.14		11	4.10
)['./O	X	. 1	6.77		1.08		439		3,39		540.0		11.85		17	4.25
11'-15	X		6.81		1.07		432		3,36		549,0	· · · · · · · · · · · · · · · · · · ·	11,83		11	4.25
11'20		X.	4.82		1.07		128		3.31		551.0		11.49		1/	4.25
				•				÷			, ,					· · · · · · · · · · · · · · · · · · ·
		·								.`		·				
												.	.	٠.		

Calculate change by subtracting current reading from previous reading. When 3 consecutive readings are +/- 0.1, pH is considered stabilized

Calculate percent by dividing current reading by previous reading and multiplying by 100. When 3 consecutive readings are between 97 and 103 percent, specific conductivity is considered stabilized

^{*} Calculate change by subtracting current reading from previous reading. When when 3 consecutive readings are +/- 10 mv, redox potential is considered stabilized

^{**} Calculate percent by dividing current reading by previous reading and multiplying by 100. When 3 consecutive readings are between 90 and 110 percent, these parameters are considered stabilized.





APPENDIX I

HUMAN HEALTH RISK ASSESSMENT

UNIMATIC MANUFACTURING CORP 25 SHERWOOD LANE FAIRFIELD, NEW JERSEY

1.00 INTRODUCTION



GZA GeoEnvironmental, Inc. (GZA) has completed a Human Health Risk Assessment (HHRA) for the former Unimatic Manufacturing Co. Facility located at 25 Sherwood Lane, Fairfield, New Jersey (hereafter referred to as the "Site"). This baseline human health risk assessment was prepared in accordance with the applicable guidance under the United States Environmental Protection Agency (USEPA) guidance document entitled Risk Assessment Guidance for Superfund" (RAGS). This guidance is actually a series of RAGS documents (http://www.epa.gov/oswer/riskassessment/risk superfund.htm), and was prepared in accordance with all relevant documents in this series. Technical judgment, consultation with USEPA staff, and recent publications were used in the development of the risk assessment.

The overall objective of the baseline human health risk assessment was to assess potential risks to current and reasonably anticipated future human receptors resulting from the release of, and exposure to, hazardous substances at the Site. It was conducted to support a Risk-Based Decision under the Toxic Substances Control Act (TSCA), 40CFR Section 761.61(c). The results of the risk assessment were used to identify whether a selected corrective action is warranted.

An HHRA consists of the following elements:

- The Hazard Identification describes the extent of contamination based on a review of analytical data for soil and groundwater and specifies the chemicals of potential concern (COPCs) in each contaminated medium.
- The Exposure Assessment identifies potential contaminant migration and exposure pathways for current and potential future uses of the Site, estimates exposure point concentrations, specifies hypothetical exposure scenarios that reflect current and reasonably foreseeable uses, and quantifies exposure for each of these scenarios.
- The *Toxicity Assessment* is an evaluation of the potential health effects associated with the Site-related chemicals, resulting in the assignment of quantitative toxicity estimates.
- The Risk Characterization integrates the exposure and toxicity assessments into a quantitative characterization of human health risk by quantifying cumulative non-cancer hazard and incremental lifetime cancer risk for each exposure scenario and comparing these estimates to the USEPA target limits of $1 \times 10^{-6} \sim 1 \times 10^{-4}$ for cancer risk and a hazard index target limit of 1 for non-cancer hazard. These target limits are used in the Superfund program.
- The *Uncertainty Analysis* highlights uncertainties in the risk characterization that should be recognized to appropriately interpret and use the results of this assessment.



Each of the above elements is discussed in a subsequent section of this document: Hazard Identification (Section 2.00); Exposure Assessment (Section 3.00); Toxicity Assessment (Section 4.00); Human Health Risk Characterization (Section 5.00); and Uncertainty Analysis (Section 6.00). This risk characterization was conducted subject to the limitations included in **Attachment I**.

1.10 CONCEPTUAL EXPOSURE MODEL

The conceptual exposure model provides a qualitative framework for presenting the assumptions, exposure pathways, receptors, and data that are used to characterize risks at a site. Characterizing risk is a multi-step process that results in an estimate of risk to people, plants, or animals ("the receptors") that may contact constituents at a site. The core of the risk characterization process is the exposure assessment. Risk assessors conduct an exposure assessment to identify the receptors and pathways that may result in contact with constituents at or near a site. Once the receptors have been identified, the risk characterization brings together analytical data and health effects data on the toxicity of the constituents of potential concern to estimate exposure levels and risks for receptors at a site.

It should be noted that risks associated with exposure to building interior material were not evaluated in this risk assessment. USEPA has agreed that polychlorinated biphenyls (PCBs) in the building interior materials can be addressed separately.

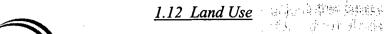
1.11 Site Description

The 1.2-acre Site is located in an industrial area at the eastern end of Sherwood Lane. The Fairfield Tax Assessor's office identifies the Site as Block 2302, Lot 8. The Site contains a single-story building, a paved parking lot to the west of the building, and a partially paved parking lot to the south and east of the building, with a small landscaped area in front of the building to the south. The building covers approximately ¾ acres of the Site. Two loading docks are located to the north of the building. The loading docks are covered with gravel. The building was constructed for Unimatic in 1955, originally to serve as a tool shop, and later for die casting. Unimatic ceased operations in 2001, and the property was sold in 2002. Since 2002, Frameware, Inc. has used the building to distribute picture frame hardware and fasteners.

We have assumed that the current Site usage will continue for the foreseeable future. The Site is zoned for industrial usage, and would have to be rezoned in order to be used for residential purposes.

The Site is bounded to the east, south, and west by industrial properties. The adjoining property to the north is owned by Jersey City Municipal Utilities Authority and contains two water mains that provide drinking water to Jersey City from upstate reservoirs. Beyond this property to the north is an industrial property. The Caldwell Trucking Superfund Site is located approximately 500 feet (ft) to the southeast of the Site. The major constituent of concern at the Caldwell Trucking Superfund site is trichloroethene (TCE).

Drinking water in Fairfield is provided by the Passaic Valley Water Commission (PVWC). The nearby village of North Caldwell receives its drinking water from PVWC as well as from Essex Fells.



The Site is currently used as a warehouse/distribution facility. The unpaved area outside the building will be paved in the future at the conclusion of the remediation activities. A deed notice will be imposed at the Site which will require pavement and building structure maintenance and to restrict disturbance of soils at the Site.

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Groundwater usage at the Site is restricted due to an Activity and Use Limitation (AUL) imposed for the Caldwell Trucking Superfund site. The Groundwater Classification Exception Area (CEA) Notification letter is provided in Attachment II. groundwater at the Site is proposed for inclusion in a Groundwater Classification Exception Area that will be established once approved by the New Jersey Department of Environmental Protection (NJDEP).

1.13 Receptors

The following receptors were chosen according to the potential or likely activities and uses that either currently occur or could occur in the future at the Site:

Receptors identified under the current use scenario include:

- Employees (facility workers) working at the Site,
- Emergency/utility workers excavating into the subsurface,
- Construction workers with exposure to soil-derived dust, and
- Site visitors and trespassers.

Receptors identified under the future use scenario include:

- Employees (facility workers) working at the Site,
- Emergency/utility workers excavating into the subsurface,
- Construction workers and other workers excavating into the subsurface,
- Site visitors and trespassers, and
- Hypothetical on-Site residents.

These potential receptors were identified based on the characteristics of the Site and the surrounding properties, as well as on the current and likely foreseeable future land uses. The environmental media that receptors may contact include soil, soil-derived dust (construction workers only), and groundwater (construction and emergency/utility workers

only). A summary of the exposure scenarios evaluated in this risk characterization is presented in Table J-1.

1.20 SUMMARY OF RISK RESULTS



1.21 Current Use Scenario

The non-cancer hazard index and total cancer risk for current facility workers with exposure to backfill material do not exceed the USEPA target limits. Therefore, soil at the Site poses no significant risks to facility workers under the current use scenario.

The total cancer risks and non-cancer hazard indices for current construction workers (e.g., Site investigation workers) and emergency/utility workers with exposure to Site soil and groundwater are within the USEPA target limits (i.e., cancer risks below the $1x10^{-6}$ to $1x10^{-4}$ range and hazard index below 1). Therefore, the Site poses no significant risks to Site investigation workers or emergency/utility workers.

The non-cancer hazard index and total cancer risk for child trespassers ages 6 to 18 with exposure to soil outside the building footprint exceed the USEPA target limits. Therefore, the Site poses significant risks to child trespassers under the current use scenario. Aroclor-1248 was identified as the soil COC and a remedial action is proposed to reduce the Aroclor-1248 levels in top soil (0 to 2 feet below ground surface or bgs.), which is considered accessible by trespassers.

1.22 Future Use Scenario

The total cancer risks and non-cancer hazard indices for emergency/utility workers with exposure to Site soil and groundwater are within the USEPA target limits (i.e., cancer risks between the 1x10⁻⁶ to 1x10⁻⁴ range and hazard index below 1). Therefore, the Site poses no significant risks to emergency/utility workers and no COCs were identified for Site soil or groundwater.

The total cancer risks and non-cancer hazard indices for future facility workers and future hypothetical residential receptors and the non-cancer hazard indices for construction workers and child trespassers with exposure to Site soil, groundwater (construction workers only), are above the USEPA target limits (i.e., cancer risks above the range of $1x10^{-6}$ and $1x10^{-4}$ and hazard index above 1). Therefore, the Site poses significant risks to future facility workers, hypothetical residential receptors, construction workers, and child trespassers.

To protect other populations from exposure to PCB-contaminated soils, a deed notice, engineering controls, and a groundwater CEA are proposed to be imposed at the Site. The locations of the areas to be put under a Deed Notice are shown on the attached figure. The deed notice and engineering controls will consist of the following elements:

- The installation and maintenance of pavement and maintenance of building structures where PCB-containing soils are present;
- Restricting activities that can disturb soils at the Site; and

 Preparation of a Health and Safety Plan and Soil Management Plan for any future construction or other subsurface activities at the Site, other than emergency subsurface utility work.



The CEA will prohibit use of groundwater as drinking water or for other intake purposes. It should be noted that a CEA established through the Caldwell Trucking Superfund case is already in place at the Site. Thus, the proposed Site CEA will provide double protection from exposure to PCB-contaminated groundwater for the various subject populations.

With the proposed soil removal remedial action, CEA, engineering controls, and the deed notice in place, PCBs in Site soil and groundwater would pose no significant risks to potential receptors under the current and future use scenarios. No remedial action is warranted for soil located deeper than 2 ft bgs, given the implementation of the proposed deed notice, engineering controls, and CEA.

2.00 HAZARD IDENTIFICATION

Identifying hazards involves summarizing the nature and extent of constituents at the Site and identifying COPCs to be carried through the quantitative risk characterization. The data used in the risk characterization, the soil and groundwater analytical results, the COPC identification, and sources of toxicity profiles for COPCs are provided in this section of the report.

2.10 DATA USED IN RISK CHARACTERIZATION

In general, data were selected for inclusion in the risk characterization to provide a conservative estimate of potential risks to the receptors at the Site. Some specific considerations are presented below:

2.11 Soil Data Used in Risk Characterization

Soil samples have been collected from the Site down to almost 40 feet bgs. Samples of soils that have been removed and disposed off-Site were not included in this risk characterization and not included in the tables. The sample results associated with soil that has been disposed off-Site were deemed not representative of the current Site conditions and therefore were not included in this risk characterization. The off-Site soil is less impacted than on-Site soil (as shown by comparing **Table III-2** and **Table III-8**); therefore, the results of the soil samples collected from off-Site industrial areas were not included in this risk characterization as a conservative approach. Additional information regarding the remedial investigations that were conducted at the Site is presented in the main text of the report¹. More than 300 soil samples were evaluated in this risk

¹ Tables 1 and 2 of the main report summarize the soil sampling results for the Case. These tables contain soil samples collected on adjoining properties, which are not included in this risk characterization. Table 4 of the main report summarizes the groundwater sampling results for the Case. This table contains groundwater



characterization. The analytical results for soil samples collected outside the building footprint are presented in **Table III-1** and summarized in **Table III-2**. The analytical results for soil samples collected within the building footprint are presented in **Table III-3** and summarized in **Table III-4**. The analytical results for the off-Site soil samples are presented in **Table III-7** and summarized in **Table III-8**.

Of the soil samples collected outside the building footprint, the off-Site samples (those highlighted in **Table HI-1**) were not used to calculate the exposure point concentrations (EPCs) for the risk characterization. The aroclor levels detected in these off-Site samples are generally lower than the levels detected in the on-Site samples. Therefore, it is a conservative approach to not include these off-Site samples in the risk characterization.

The analytical results for backfill material (WC-Backfill) were included in this risk characterization. This was a sample of backfill that originated at the Site that was composited from five discrete soil samples. Specifically, the levels detected in the backfill material were used to represent the levels to which current facility workers may be exposed. In addition, the sample results were included in the data set from which the EPCs were calculated for the other receptors.

2.12 Groundwater Used in Risk Characterization

Groundwater samples were collected between 10 feet and 53 feet bgs. The analytical results for groundwater samples collected from the Site are presented in Table III-5 and summarized in Table III-6.

Construction workers and emergency/utility workers were assumed to contact groundwater within 15 feet bgs. As a result, only the results of the samples collected from wells with groundwater depth within 15 feet were included in the risk assessment because deeper groundwater is not considered accessible by any current or future receptors.

Groundwater at GW-4 was measured at 13 feet bgs; however, this groundwater grab sample was collected from a temporary well point almost a decade ago (in 2002) and was not considered representative of the current Site conditions. Therefore, the GW-4 result was not used in the risk assessment. Permanent monitoring well MW-4 was installed at the same location as GW-4 and has been sampled in 2009. The groundwater results from MW-4 are considered representative of current Site conditions, as are groundwater sample results from all of the on-site permanent monitoring wells.

samples collected on a property to the north of the Site, which also are not included in this risk characterization.

Monitoring wells MW-KB-1 and MW-KB-2 are located off-Site and groundwater at these locations were not impacted by PCBs. The groundwater results from MW-KB-1 and MW-KB-2 also were not included in the risk assessment.



2.13 Treatment of Duplicates and Samples Collected at a Single Location Over Time

Soil duplicate results were averaged to represent the concentrations for the duplicate pair.

GZA did not average groundwater results representing a single sampling location that were collected over time; instead each sample result was considered a discrete data point and used in the exposure point concentration calculation.

2.20 DATA USABILITY EVALUATION

GZA performed the data usability evaluation by reviewing the laboratory case narratives and field quality control performance (e.g., precision of field duplicates, sample collection and preservation). A summary of the data quality and other parameters pertinent to the data's acceptability for the risk assessment are presented in Attachment IV and summarized in this section. In brief, all data used in the risk assessment have been evaluated by GZA's chemist under the guidelines set forth in the USEPA RAGS, with consideration for the methodology requirements and the site-specific project plan. A summary of the data usability evaluation is listed in **Tables IV-1** and **IV-2** for soil and groundwater, respectively.

2.2.1 Precision

The term precision is used to describe the reproducibility of results. It can be defined as the agreement between the numerical values of two or more measurements resulting from the same process. In the case of chemical analyses, precision is determined through the analyses of duplicate environmental samples. Duplicate sample analyses include matrix spike duplicate analysis, laboratory control spike duplicate analysis, field duplicate analysis, and replicate instrumental analyses of individual environmental samples.

A total of seven field duplicate samples were available for the soil samples collected during the soil investigation. Relative percent differences (RPDs) were calculated for each pair of duplicate samples and are presented in **Table IV-3**. The aroclor results between the duplicate samples are generally consistent with each other. The RPDs for Aroclor-1248 between SB-100B-32C and SB-4000 (115%), between SPE-42A-14 and SPE-42A-14D (85%), between SB-85A-36 and SB-10000 (63%), and the RPD for Aroclor-1242 between SB-141-8 and SB-3000 (131%) were elevated (i.e., above 50%). The elevated RPDs might be related to heterogeneity of the soil matrix. The above referenced results were considered estimated values but still usable for the risk characterization and were qualified with "J".

2.2.2 Accuracy



Accuracy is a measure of the closeness of a reported concentration to the true value. Accuracy is usually expressed as a bias (high or low) and is determined by calculating percent recovery (%R) from spiked samples. During field sampling and sample shipping, contamination that could affect the accuracy of analysis results may be introduced into the samples. Contamination affecting accuracy can also be introduced during laboratory analysis. Method blanks were used during laboratory procedures to assess laboratory-introduced contamination.

Estimates of accuracy are more difficult to obtain than precision since accuracy requires knowledge of the true value. In the case of chemical analyses, accuracy is determined through the introduction of compounds or elements to samples of known concentrations, or analytical spikes. The assumption is that compounds will be recovered from environmental samples to the same degree as in analytical spikes.

Two types of compounds were added to environmental samples for assessing accuracy: surrogate compounds and matrix spike compounds. Surrogates are compounds that closely approximate target analytes in structure, but are not target analytes. Surrogate compounds generally are added to samples in the preparation stages and monitor the effectiveness of the preparation process. Matrix spike compounds are target analytes that are added based upon expectations of matrix interferences that impede analyte detection. Laboratory method blank samples were spiked with surrogate compounds, per analysis day, as an additional means of estimating accuracy. The accuracy of chemical analyses was estimated using the percent recovery of compounds or elements that were added to analytical spikes.

No laboratory contamination was detected in any sample delivery package and LCS/LCSD recoveries for all the data used in this risk assessment were found to be acceptable (i.e. within the laboratory established limits) according to the laboratory case narratives.

MS/MSD recoveries for most samples were found acceptable (i.e. within the laboratory established limits). The recoveries of certain aroclors from some MS/MSD samples were outside the limits. No data were deemed unacceptable based on the MS/MSD evaluation.

Surrogate recoveries for most samples were found to be acceptable (i.e. within the laboratory established limits). The surrogate recoveries of certain samples were outside the limits; but the recoveries for most of these samples were higher than the laboratory established limits, indicating potential overestimation of sample concentrations. The surrogate recoveries that were lower than the laboratory established limits were greater than 10%, below which the nondetects would be rejected in accordance with the USEPA Region 2 Resource Conservation and Recovery Act (RCRA) and comprehensive environmental response, compensation, and liability act (CERCLA) Field and Data Validation Standard Operating Procedures (SOPs). As a result, no data were deemed unacceptable based on the surrogate recovery evaluation.

2.2.3 Representativeness



Representativeness expresses the extent to which collected data define site contamination. Factors influencing representativeness include sample collection, selection of sampling locations representative of site conditions, and use of appropriate chemical methods for sample analyses. Sampling from locations representative of Site conditions was achieved through implementation of the field sampling plan that was part of a Remedial Investigation Work Plan approved by the NJDEP in 2009. Field duplicates were collected and analyzed in order to assess the influence of sample collection on representativeness. Field duplicates were collected for approximately 2% of field samples.

In addition, representativeness was evaluated by evaluation of:

- · Sample Package Completeness and Deliverables
- · Technical Holding Time
- · QA/QC Results

2.2.3.1 Sample Package Completeness and Deliverables

In general, the data packages submitted by Aqua Pro-Tech Laboratories (APL) and TestAmerica Laboratories, Inc. (TA) are sufficient for the data usability evaluation.

2.2.3.2 Sample Preservation and Technical Holding Time

All the samples were preserved according to the NJDEP's Field Sampling Procedures Manual and analyzed within the holding time with few exceptions. Samples that exceeded holdings times were discarded and recollected. Samples were placed in a cooler containing ice upon collection. Solids percentage was greater than 50% for all samples evaluated.

2.2.3.3 QA/QC Results.

The laboratory case narratives for each sample delivery package were reviewed for any QA/QC issues such as instrument performance, reporting limits, and instrument calibration. No deficiencies were noted for the QA/QC results other than those discussed in Sections 2.2.1 and 2.2.2.

2.30 SELECTION OF CONSTITUENTS OF POTENTIAL CONCERN

This risk assessment evaluates potential risks to residual PCBs (in the form of aroclors) in Site soil and groundwater. Other chemicals that are present at the Site were not evaluated in this risk assessment since they are subject to strict remediation standards imposed by the NJDEP and not in the regulatory purview of the USEPA. Some chemicals (e.g., volatile organic compounds, or VOCs) may impact PCB transport in groundwater and soil and therefore their impact to PCB fate and transport should be evaluated. However, at the Site they were only detected in the saturated zone, below 20 feet bgs, and therefore only of concern to the groundwater ingestion pathway at the Site. It is well documented that the former Unimatic site sits in an area of regional VOC contamination, and that a plume of shallow VOC contamination is flowing from the adjacent former General Hose property in



the approximate direction of the former Unimatic site. Gene Fowler, the NJDEP Case Manager for both the Unimatic and the General Hose remedial cases, confirms these facts.

Tables J-2A and J-2B (i.e., the RAGS Part D Table 2 series) provide supporting documentation for COPC selection for soil and groundwater, respectively, based on evaluation of current and possible future receptors and exposure pathways at the Site. COPC screening was conducted using all relevant soil and groundwater PCB data (as discussed in Section 2.10).

Maximum detected concentrations were screened against applicable USEPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites. Background concentrations of COPCs, meaning those concentrations that would exist in the absence of chemical releases at the Site, were not used in the COPC selection process.

All aroclors detected in soil and groundwater at the Site were selected as COPCs and the chemicals selected as COPCs are listed in **Table J-3**. Aroclors that were not detected in any respective soil or groundwater samples were not identified as COPCs and were not included in this risk characterization. Individual aroclors were included in this risk characterization and cumulative risks to PCBs were evaluated by summing up the risks by individual aroclors.

2.40 TOXICITY PROFILES

Toxicity profiles for PCBs are available at the following web address: http://www.atsdr.cdc.gov/ToxProfiles/tp17.pdf. The profiles summarize mechanisms of toxic action, acute and chronic non-cancer effects, and potential cancer effects from human and animal studies, as well as data on chemical and physical properties and fate and transport processes. These profiles provide general information and do not necessarily directly relate to potential effects associated with exposures to the constituents identified at the Site.

3.00 EXPOSURE ASSESSMENT

The purpose of the exposure assessment is to provide an estimate of the representative concentrations of COPCs that a human receptor may contact at the Site over a period of time. A qualitative evaluation of the potential receptor groups that may be present at the Site is provided in the Exposure Assessment Summary (Table J-1). The exposure assessment identifies potential human receptors and exposure pathways (Section 3.10); presents the exposure factor assumptions for each receptor (Section 3.20); delineates potential exposure points and estimates exposure point concentrations (Section 3.30); and estimates potential doses to human receptors (Section 3.40).

A reasonable maximum exposure (RME) scenario was evaluated for each identified exposure pathway. The RME is defined as the highest exposure that could reasonably be expected to occur for a given exposure pathway at a site, and is intended to account for both uncertainty in the contaminant concentration and variability in the exposure parameters (such as exposure frequency and averaging time).

3.10 POTENTIAL HUMAN RECEPTORS AND EXPOSURE PATHWAYS

For each identified receptor at each exposure point, complete or potentially complete exposure pathways² were identified based on activities and uses of the properties and the presence of COPCs in environmental media. Exposure scenarios evaluated for the Site include:



3.1.1 Potential Human Receptors and Exposure Pathways Under the Current Use Scenario

The following receptors and exposure pathways were identified under the current use scenario. Additional information of the rationales of the receptor and pathway selection is presented in **Table J-1**.

- Facility workers working at the Site were assumed to contact backfill material³ at the partially paved parking lot located to the north and east of the building. The parking lot located to the west of the building is paved and therefore soil in this area is not accessible. The parking lot located to the east of the building is partially paved. Surface soil in the parking lot to the southeast of the building is not impacted by PCBs; the unpaved portion of the parking lot to the east of the building has been excavated and backfilled. Based on the above discussion, facility workers were assumed to be exposed to the backfill material located in the unpaved portion of the parking lot to the east of the building.
- Construction workers (e.g., Site investigation workers) working at the Site Site investigation were assumed to inhale soil-derived fugitive dust. workers are currently working at the Site and may be exposed to soil and groundwater at the Site. However, Site investigation workers would perform work at the Site in accordance with Occupational Safety and Health Administration (OSHA) regulations and a site-specific health and safety plan included in the Site Remedial Action Work Plan. As a result, workers are not expected to have direct contact (i.e., ingestion or dermal contact) with soil or groundwater at the Site. Workers may be exposed to soilderived dust during investigation work. GZA will perform air monitoring using a real-time measuring device to assess the presence of airborne particulates during soil disturbance activities. Water will be employed as needed to keep the concentration of airborne particulates below action levels. Currently there is no plan for any construction work other than remediation and investigation at the Site. Therefore, it is unlikely for general construction workers to work at the Site under current Site conditions.

² A complete exposure pathway consists of the following elements: a source and mechanism of constituent release; a retention or transport medium; a point of potential human contact (exposure point); and an exposure route (e.g., dermal contact, ingestion, or inhalation).

³ The backfilled material was obtained from the Site soils which contain PCBs.



- Trespassers were assumed to contact soils at the Site via dermal contact and incidental ingestion.
- Emergency/utility workers were assumed to contact soils at the Site via dermal contact and incidental ingestion and to contact groundwater at the Site via dermal contact. There is no evidence that utility lines are located within the area with PCB impact; nonetheless, as a conservative approach, emergency/utility workers were included in this risk assessment for both the current and future use scenarios. VOCs were detected in groundwater within or near the building footprint. The VOCs detected in Site groundwater are an indoor vapor intrusion issue, and therefore not evaluated in this risk assessment. Vapor intrusion will be addressed in accordance with NJDEP requirements.

3.1.2 Potential Human Receptors and Exposure Pathways Under the Future Use Scenario

The following receptors and exposure pathways were identified for the Site under the future use scenario. Additional information of the rationales of the receptor and pathway selection is presented in **Table J-1**.

- On-Site facility workers were assumed to contact soils at the Site via dermal contact and incidental ingestion.
- Construction workers working at the Site were assumed to encounter surface and subsurface soil via dermal contact, incidental ingestion, and inhalation of soil-derived fugitive dust. Construction/utility workers were also assumed to be exposed to constituents in groundwater via dermal contact.
- Future hypothetical on-Site residents were assumed to contact soils at the Site via dermal contact and incidental ingestion.
- Trespassers were assumed to contact soils at the Site via dermal contact and incidental ingestion.
- Emergency/utility workers were assumed to be able to contact soils at the Site via dermal contact and incidental ingestion

As discussed in Section 1, current groundwater usage at the Site is restricted due to an AUL imposed for the Caldwell Trucking Superfund site. A Groundwater CEA is being proposed to the NJDEP as part of the Remedial Action Work Plan. Like the CEA that is in place for the Caldwell Trucking Superfund Site, the Unimatic CEA will restrict groundwater usage at the Site until the constituents of concern reach Ground Water Quality Standards (GWQS) set by the NJDEP. In the case of PCBs at the Site, the expected duration of the CEA is indeterminate, since PCBs do not readily degrade in the subsurface. Drinking water in Fairfield is obtained from the PVWC. The nearby village of North Caldwell receives its

drinking water from PVWC as well as from Essex Fells. Therefore, exposure to groundwater via intake and inhalation (through shower) is not evaluated in this risk assessment.

3.20 EXPOSURE FACTOR ASSUMPTIONS



An important aspect of exposure assessment is the determination of assumptions regarding how receptors may be exposed to contaminants. An extensive listing of exposure factors are provided in USEPA guidance, and these were followed throughout this assessment. Standard scenarios and USEPA-recommended default assumptions were used where appropriate.

The exposure scenarios in this assessment involve the following receptors, based on the current land use and future use of the Site:

- on-Site facility workers
- construction workers
- child trespassers/visitors (referred to as child trespassers)
- emergency/utility workers
- hypothetical residents

The exposure assumptions for these scenarios are intended to approximate the frequency, duration, and manner in which receptors are exposed to environmental media. Exposure assumptions and parameters were identified for the RME scenario based on the following USEPA guidance and conservative professional judgment, if USEPA guidance is not available.

- USEPA, 2002a: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December
- USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment)

Details of the exposure assumptions and parameters for each exposure scenario are shown in **Tables J-4A through J-4E** for facility workers, construction workers, child trespassers, emergency/utility workers, and hypothetical residents, respectively. A brief summary of selected exposure factor assumptions are presented below for each receptor.

3.2.1 Facility Workers

The on-Site facility workers were assumed to spend 5 days/week for 50 weeks (i.e., 250 days) each year at the Site. This exposure period lasts for an entire 25-year career. During each workday at the Site, these workers ingest and dermally contact soil at the Site.

3.2.2 Construction Workers



Construction workers were assumed to spend one year working at the Site, which is a typical duration for a significant construction project. These workers spend 5 days/week for 50 weeks (i.e., 250 days) at the Site. During each working day, construction workers inhale the ambient air at the Site and may ingest and dermally contact surface and subsurface soil (0 to 15 feet bgs). Construction workers were assumed to contact groundwater by their hands and forearms one event each day during 100 workdays (i.e., one day at the beginning of the week and one day at the end of the week for 50 weeks) to assemble or dissemble a pumping system. Each event is assumed to last half an hour.

3.2.3 Child Trespassers/Visitors

Child trespassers were assumed to spend 30 days a year for 12 years (ages 6 to 18 years) at the Site. During each visit at the Site, the children ingest and dermally contact soil at the Site.

3.2.4 Emergency/Utility Workers

The exposure profile for emergency/utility workers are the same as the exposure profile for construction workers except that emergency/utility workers were assumed to have one emergency event at the Site.

3.2.5 Hypothetical Residents

Child and adult residents were assumed to spend 350 days each year at the Site. Each day the residents ingest and dermally contact soil at the Site. Child residents were assumed to have a soil ingestion rate of 200 mg/day while adult residents were assumed to have a soil ingestion rate of 100 mg/day. The dermal contact and incidental ingestion exposure routes are independent of time spent at the activity during a given exposure event (e.g., a child is assumed to incidentally ingest 200 milligrams of soil each day he/she plays at the Site regardless of the time spent during those activities on any given day).

3.30 EXPOSURE POINT AND EXPOSURE POINT CONCENTRATION IDENTIFICATION

For receptors to be exposed to constituents at the Site, a realistic exposure pathway must be established leading from the source to the receptor. The point at which the contact occurs is referred to as the exposure point. The potential exposure points for the Site are described below and were identified based on the presence and accessibility of COPCs in environmental media.

EPCs provide an estimate of the COPC concentrations that a receptor can potentially contact at an exposure point over the period of exposure. To evaluate potential future exposures, it was assumed that no further remedial actions would be taken and that levels of contamination currently existing at the Site would remain the same in the future. The EPCs for each exposure medium are summarized in **Tables J-5A through J-5E**.

3.3.1 Soil Exposure Points and Exposure Point Concentrations

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Soil EPCs were calculated for three separate areas:

- 1) soil outside the building footprint;
- 2) soil within the building footprint; and
- 3) soil in the unpaved parking area to the east of the building.



Current facility workers were assumed to be exposed to surface soil located in the unpaved parking area to the east of the building. Current construction workers and child trespassers were assumed to be exposed to soil outside the building footprint but not soil within the building footprint because the soil beneath the building is not accessible. Emergency/utility workers may be exposed to soil outside and within the building footprint.

Future receptors were assumed to be exposed to soil located both outside and within the building footprint considering that future disturbances of soil could occur, resulting in the movement of constituents currently not accessible to a location where exposures could occur.

For PCBs in soil outside the building footprint, the EPCs were calculated for three intervals: 1) 0 to 2 ft bgs; 2) 0 to 6 ft bgs; and 3) 0 to 15 ft bgs. Future on-Site facility workers, hypothetical residents, and Site visitors and trespassers were assumed to be exposed to surface soil (0 to 2 ft bgs); emergency/utility workers were assumed to contact soil at 0 to 6 ft bgs interval; and construction workers were assumed to be exposed to surface and subsurface soil (0 to 15 ft bgs) during excavation activities.

For PCBs in soil within the building footprint, the EPCs were calculated for the 0 to 15-foot bgs interval. Current emergency/utility workers may be exposed to soil 0 to 6 ft bgs while future receptors may be exposed to soil 0 to 15 ft bgs due to the disturbances of soil. Because the PCB levels detected at 0 to 6 ft bgs and 0 to 15 ft bgs are similar (i.e., the arithmetic means are similar with the arithmetic mean at 0 to 15 ft bgs slightly higher), the EPCs calculated for soil at 0 to 15 ft bgs were used for all receptors. **Table III-4** presents a comparison of the minimum, mean, maximum, and detection frequency between the 0-6 ft and 0-15 ft data sets.

Soil in the unpaved portion of the parking lot to the east of the building has been excavated and backfilled during previous Site remediation activities. Soils originally suspected of being uncontaminated were used as backfill during the previous remedial activities. The PCB level detected in the backfill material, as determined by the analytical results from composite soil sample WC-Backfill, which was collected on 3/9/2010, and was used as the EPC for this exposure point for facility workers under the current use scenario. This soil sample was composited from five discrete soil samples collected from the native backfill.

Unless otherwise specified, soil EPCs for the reasonable maximum exposure risk calculations are equal to appropriate upper confidence limits (UCLs) of the arithmetic means of the concentrations (USEPA, 2010a). The EPC, or the appropriate UCL of the mean concentration, was calculated using the USEPA Software for Calculating Upper Confidence Limits (ProUCL version 4.00.05). The EPC calculation is consistent with the USEPA guidance (2002b). The algorithms and procedures were described in the USEPA (2002b) Calculating Upper Confidence Limits For Exposure Point Concentrations At

Hazardous Waste Sites and USEPA (2010) ProUCL Version 4.00.05 User Guide. In brief, the following algorithms were used for calculating the soil EPCs:

- 1. Sample and its field duplicate were averaged and treated as a single entry.
- 2. USEPA's ProUCL Version 4.00.05 was used to generate an appropriate UCL to be used as the EPC. The USEPA ProUCL provides summary results for normal distribution test, lognormal distribution test, gamma distribution test, and nonparametric test of the data. Based upon an appropriate data distribution and the associated skewness, ProUCL provides recommendations about an appropriate UCL computation method that may be used to estimate the unknown mean concentration of a COPC.

The results generated by the ProUCL are presented in Attachment V.

The maximum detected concentrations were used as the EPCs as a conservative approach for the following exposure point and aroclors due to the limited data set size or limited detects in the data set:

- Aroclor-1254 and Aroclor-1260 in surface soil (0-2 ft bgs) outside the building footprint (**Table V-1**);
- Aroclor-1260 in top 6 ft soil outside the building footprint (Table V-2);
- Aroclor-1242 and Aroclor-1260 in top 15 ft soil outside the building footprint (Table V-3); and
- Aroclor-1248 in unpaved parking lot to the east of the building (Table V-4).

3.3.2 Groundwater Exposure Points and Exposure Point Concentrations

Consistent with the soil exposure assumption, construction workers were assumed to be exposed to groundwater within 15 ft bgs. For PCBs in groundwater, all groundwater samples collected from wells with groundwater depth within 15 ft bgs were included in the groundwater EPC calculation. The maximum detected concentrations were used as the EPCs as a conservative approach. Permanent monitoring well MW-4 was installed at the same location as GW-4 and was sampled in 2004 and 2009 last year. The PCB concentrations at MW-4 decreased approximately by almost 50% in the five year interval between sampling events.

3.3.3 Soil-Borne Fugitive Dust Exposure Points and Exposure Point Concentrations

The identified soil exposure points may also be sources of airborne fugitive dust. Soil-borne fugitive dust EPCs were calculated using the soil EPCs, according to the following equation:

 $EPC_{dust} = EPC_{soil} \times PM10 \times C1$

⁴ Groundwater depth at GW-4 was measured at 13 feet; however, the groundwater results were collected almost a decade ago (in 2002) and were not considered representative of the current Site conditions. Therefore, the GW-4 results were not used in the risk assessment.

where:

GZN

EPC_{soil} = exposure point concentration in soil (milligrams per kilogram, or mg/kg)

PM10 = concentration in air (mg/m³) of particulate matter with an aerodynamic diameter of less than 10 micrometers, and

C1 = unit conversion factor $(1 \times 10^{-6} \text{ kg/mg})$.

During construction activities, fugitive dusts may be generated from soil by wind erosion, construction vehicle traffic on temporary unpaved roads, excavation, and other The dusts would contain the chemicals present in the soil. construction activities. Construction workers in the construction area would breathe this particulate matter (PM) in the ambient air and therefore may be exposed to chemicals in Site soils via inhalation. As current and future subsurface activities (e.g., excavation) could bring subsurface soils to the surface, both surface and subsurface soil (0 to 15 feet bgs) data were used to evaluate the EPC in air associated with the fugitive dust for construction workers. A model presented in the USEPA (2002a) Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites, which evaluates the fugitive dust emission by truck traffic on unpaved roads during construction, was used to estimate the EPC in ambient air during the construction. This model was selected as truck traffic on unpaved road is a common activity and occurs frequently at a construction site and therefore is considered a significant mechanism to cause dust. According to USEPA (2002a), "emissions from truck traffic on unpaved roads, which typically contribute the majority of dust emissions during construction...". "In the case of particulate matter, traffic on contaminated unpaved roads typically accounts for the majority of emissions, with wind erosion, excavation soil dumping, dozing, grading, and tilling operations contributing lesser emissions." Based on the above discussion, the emissions from truck traffic on unpaved roads were modeled to represent PM produced by the construction activity.

$$EPC_{air} = EPC_{soil} \times \frac{1}{PEF_{r}}$$

where:

EPC_{air} = Exposure Point Concentration of chemicals in air associated with fugitive dust (mg/m³);

EPC_{soil} = Exposure Point Concentration of chemicals in soil (mg/kg);

PEF_{sc} = Subchronic road particulate emission factor (m³/kg).

$$PEF_{sc} = Q/C_{sr} \times \frac{1}{F_D} \times \left[\frac{T \times A_R}{556 \times (W/3)^{0.4} \times \frac{365d/yr - p}{365d/yr} \times \sum VKT} \right]$$

where:

Q/C_{sr} = Inverse of the ratio of the 1-h geometric mean air concentration to the emission flux along a straight road segment bisecting a square site (g/m²-s per kg/m³)



 F_D = Dispersion correction factor (unitless), 0.185

T = Total time over which construction occurs (s). T was assumed to be one

year, or 31,536,000 s.

 A_R = Surface area of contaminated road segment (m²)

 $A_R = L_R x W_R x 0.092903 m^2 / ft^2$

L_R = Length of road segment (ft), assumed 600 ft for the Site

 W_R = Width of road segment (ft), assumed 20 ft

W = Mean vehicle weight (tons)

p = Number of days with at least 0.01 inches of precipitation (days/year), 130 days/year based on Exhibit 5-2 of the USEPA (2002a) document

 $\Sigma VKT = Sum of fleet vehicle kilometers traveled during the exposure duration (km)$

$$Q/C_{sr} = A \times \exp\left[\frac{(\ln A_s - B)^2}{C}\right]$$

where:

A = Constant (unitless), 12.9351

 A_s = Area extent of Site soil contamination (acres), 1.2 acres

B = Constant (unitless), 5.7383

C = Constant (unitless), 71.7711

Mean vehicle weight (W) can be estimated by assuming the numbers and weights of different types of vehicles. Assuming that the daily unpaved road traffic consists of 20 two-ton cars and 10 twenty-ton trucks, the mean vehicle weight would be:

$$W = [(20cars \times 2tons / car) + (10trucks \times 20tons / truck)]/30vehicles = 8tons$$

The sum of the fleet vehicle kilometers traveled during construction (ΣVKT) can be estimated based on the size of the area of soil contamination, assuming the configuration of the unpaved road, and the amount of vehicle traffic on the road. The area of soil contamination at the Site is approximately 1.2 acres (or 4,856 m²); the road length was assumed to be 600 feet (or 183 m, or 0.183 km). Assuming that each vehicle travels the length of the road once per day, 5 days per week for a total of 6 months, the total fleet vehicle kilometers traveled would be:

$$\sum VKT = 30 vehicles \times 0.183 km/day \times 50 wks/yr \times 5 days/wk = 1373 km$$

The PM_{10} concentration estimated for the construction scenario is 192 ug/m³ based on the above assumptions. The ambient air exposure point concentrations for construction workers are presented in **Table J-5E**.

3.40 QUANTIFICATION OF EXPOSURE

Once the EPCs were calculated, each receptor's potential exposures to chemicals of potential concern is quantified for each of the exposure pathways. The exposures were calculated following methods recommended in USEPA guidance documents, such as the Risk Assessment Guidance for Superfund (USEPA 1989) and all relevant documents in this series.



A human health intake or the absorbed dose, depending on the exposure route, was calculated based on the EPC and exposure factor assumptions. Intakes or doses are normally expressed as the amount of chemical at the environment-human receptor exchange boundary in milligrams per kilogram of body weight per day (mg/kg-day), which represents an exposure normalized for body weight over time. The total exposure is divided by the period of interest to obtain an average exposure. The averaging time is a function of the toxic endpoint: for non-carcinogenic effects, it is the exposure time (specific to the scenario being assessed) and for carcinogenic effects, it is lifetime (70 years).

The generic equation used to calculate intake for receptors is as follows (USEPA, 1989):

$$DI = \underbrace{EPC \times CR \times EFD}_{BW \times AT}$$

where:

DI = Daily intake; the amount of chemical at the exchange boundary (mg/kg body weight-day);

EPC = Exposure point concentration (e.g., mg/L or mg/kg);

CR = Contact rate; the amount of contaminated medium contacted per unit time or event (e.g., L/d or mg/d);

EFD = Exposure frequency and duration; describes how long and how often exposure occurs. Often calculated using two terms (EF and ED):

EF = Exposure frequency (d/y) and ED = Exposure duration (y);

BW = Body weight (kg); and

AT = Averaging time; period over which exposure is averaged (d).

In this section, the methods used to calculate exposures by each pathway are explained. Tables that show the human intake or absorbed dose values calculated for each exposure scenario are contained in **Attachment VI**. These intakes and doses were used to assess overall carcinogenic and non-carcinogenic risks, as discussed later in the risk characterization section (Section 5).

3.4.1 Inhalation of Particulate Matter in Ambient Air

The equation for inhalation of particulate matter in ambient air (indoor air or particulate matter in ambient air) is as follows (USEPA, 1989):

Intake (mg/kg/day) =
$$EPC_{air}x IR x EF x ED$$

BW x AT

where:

 $EPC_{air} = Exposure Point Concentration in air (mg/m³)$



IR = Inhalation Rate (m^3/day)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

BW = Body weight (kg)

AT = Averaging Time (days)

As discussed in Section 3.33, the EPC in ambient air was calculated based on the soil EPC and particulate matter less than $10\mu m$ aerodynamic diameter (PM₁₀). PM₁₀ represents smaller particles which can be inhaled (particles larger than $10\mu m$ diameter typically cannot enter the narrow airways in the lung). Ambient PM₁₀ concentrations for a construction worker were estimated using the emission and dispersion model presented in Section 3.33.

3.4.2 Incidental Ingestion of Soil

The equation for intake via incidental ingestion of soil is as follows (adapted from USEPA, 1989):

Intake (mg/kg-day) =
$$\frac{EPC_{soil} \times IR \times B \times CF \times FI \times EF \times ED}{BW \times AT}$$

where:

EPC_{soil} = Soil Exposure Point Concentration (mg/kg)

IR = Soil Ingestion Rate (mg/day)

B = Relative Bioavailability, the relative oral absorption fraction (unitless)

 $CF = Conversion Factor (1 kg/10^6 mg)$

FI = Fraction Ingested from Contaminated Source (unitless)

EF = Exposure Frequency (days/years)

ED = Exposure Duration (years)

BW = Body Weight (kg)

AT = Averaging Time (period over which exposure is averaged -- days)

To accurately quantify potential exposures from ingestion of soil, it is important to consider the amount of a chemical that is solubilized in gastrointestinal fluids and absorbed across the gastrointestinal tract into the bloodstream. A chemical present in soil may be absorbed less completely than the same dose of the chemical administered in toxicity studies used to evaluate safe dose levels. A relative bioavailability estimate for a specific

compound represents the absorption fraction from soil (the exposure route of concern) relative to the absorption fraction from food or water (in most toxicity studies, chemical doses are administered in food or water).



It is widely recognized that bioavailability of many metals and organics from soil tends to be considerably lower than bioavailability from food or water (see, for example, Ruby et al., 1999 and Alexander, 2000). Bioavailability from soil can be affected by a number of factors, including chemical form, solubility, size of the ingested soil particle, soil type, degree of encapsulation within an insoluble matrix, and nutritional status of the individual.

USEPA guidance recognizes the need to make adjustments for the reduced bioavailability of compounds in soil. Specifically, in Appendix A of the Risk Assessment Guidance for Superfund (USEPA, 1989, pg. A-3), USEPA notes:

"If the medium of exposure in the site exposure assessment differs from the medium of exposure assumed by the toxicity value (e.g., RfD values usually are based on or have been adjusted to reflect exposure via drinking water, while the site medium of concern may be soil), an absorption adjustment may, on occasion, be appropriate. For example, a substance might be more completely absorbed following exposure to contaminated drinking water than following exposure to contaminated food or soil (e.g., if the substance does not desorb from soil in the gastrointestinal tract)."

The USEPA guidance goes on to recommend the use of relative absorption adjustments; for example, "to adjust a food or soil ingestion exposure estimate to match an reference dose (RfD) or slope factor based on the assumption of drinking water ingestion" (USEPA, 1989, pg. A-3).

Although the general principles discussed above are likely to reduce the bioavailability of compounds in soil, published bioavailability studies of compounds have been limited. Therefore, a relative bioavailability of 100% was used in the risk assessment for ingestion of all other COPCs. This is a very conservative assumption. Specifically, the physical and chemical properties of a compound change over time. These changes, known as "weathering", can make a chemical less bioavailable to organisms, including mammals (e.g., humans) (Loehr, 1996).

3.4.3 Dermal Contact with Soils

The equation for the absorbed dose from dermal exposure is as follows, based on guidance in USEPA (2004):

Absorbed Dose (mg/kg-day) =
$$\underline{DA_{event} \times EF \times ED \times EV \times SA}$$

BW x AT

$$DA_{event} = EPC_{soil} \times CF \times AF \times ABS_d$$

where:



Absorbed dose per event (mg/cm²-event)

EF

Exposure frequency (days/year)

ED

Exposure duration (years)

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EPC_{soil} = Exposure point concentration in soil (mg/kg)

EV

Event frequency (events/day)

SA

Skin surface area available for contact (cm²/event)

RW

Body weight (kg)

AT

Averaging time (period over which exposure is averaged -- days)

CF

= Conversion factor (10⁻⁶ kg/mg)

AF

Soil to skin adherence factor (mg/cm²)

. - -

Dermal absorption factor (unitless)

3.4.4 Dermal Contact with Groundwater

The construction worker and emergency/utility worker may be exposed to groundwater while working at the Site. The equation for the absorbed dose, according to USEPA (2004) is as follows:

Absorbed Dose (mg/Kg-day) =
$$\underline{DA_{event} \times EF \times ED \times EV \times SA}$$

 $\underline{BW \times AT}$

where:

٠.

 DA_{event} = Absorbed dose per event (mg/cm² - event)

EF

= Exposure frequency (days/year)

ED

Exposure duration (years)

EV

= Event frequency (events/day)

SA

Skin surface area available for contact (cm²)

BW

= Body weight (Kg)

ΑT

= Averaging time (period over which exposure is averaged -- days)

The absorbed dose per event (DA) was calculated as described in the Supplemental Guidance for Dermal Risk Assessment (USEPA, 2004).

For organics, a parameter, B was first calculated. This value attempts to characterize the relative contribution of each compound's specific permeability coefficient (K_p value) in the stratum corneum and the viable epidermis.



$$B = K_p \frac{\sqrt{MW}}{2.6}$$

where:

K_p = Dermal permeability coefficient in water (cm/hr)

MW = Molecular weight (g/mole)

Once calculated, the B value was used to calculate time conditions associated with estimates of compound breakthrough time.

If
$$B \le 0.6$$
, then $t^* = 2.4\tau_{event}$
If $B > 0.6$, then $t^* = 6\tau_{event}(b - \sqrt{b^2 - c^2})$
 $b = \frac{2(1+B)^2}{\pi} - c$
 $c = \frac{1+3B+3B^2}{3(1+B)}$
 $\tau_{event} = 0.105 \times 10^{(0.0056MW)}$

where:

B = Dimensionless ratio of the permeability coefficient of a compound through the stratum corneum relative to its permeability coefficient across the viable epidermis (dimensionless)

t* = Time to reach steady-state (hr)

 τ_{event} = Lag time per event (hr/event)

b,c = Correlation coefficients which have been fitted to the Flynn's data

The lag time (τ_{event}), is defined as the time it takes a chemical to penetrate to reach a steady-state condition during a dermal exposure in aqueous media. By properly defining the lag time, the permeability coefficient (K_p) can be used in the risk calculation further reducing uncertainty. Lag time and breakthrough time (t*) for each organic COPC were from Exhibit B.3 of the USEPA (2004) Supplemental Guidance for Dermal Risk Assessment, or calculated using the above USEPA recommended equations.

If the exposure time per event (t_{event}) is less than the breakthrough time (t*) of steady-state conditions specific to each compound, then the absorbed dose is calculated as follows:

$$DA_{event} = 2FA \times K_p \times EPC_{gw} \times CF \times \sqrt{\frac{6\tau_{event} \times t_{event}}{\pi}}$$

If the exposure time is longer than t*, then the absorbed dose is calculated using:



DA_{event} = FA x K_p x EPC_{gw} x CFx
$$\left[\frac{t_{event}}{1+B} + 2\tau_{event} \left(\frac{1+3B+3B^2}{(1+B)^2} \right) \right]$$

where for both equations:

FA = Fraction absorbed water (dimensionless), assumed as 0.5 for aroclors based on the FA for PCB-hexachlorobiphenyl presented in USEPA (2004) Exhibit B-3.

K_p = Dermal permeability coefficient (cm/hr)

 $EPC_{gw} = EPC$ Concentration in Water (mg/L)

ET = Exposure Time (hours)

CF = Volume Conversion Factor = 0.001 L/cm³

Dermal permeability coefficients for aroclors were calculated based on the following equation presented in USEPA (2004):

$$\log K_p = -2.80 + 0.66 \log K_{ow} - 0.0056MW$$

Mw and Kow (Octanol-Water Partition Coefficient) values were from the hazardous substances data bank.

4.00 TOXICITY ASSESSMENT

This section provides a general description of toxicity values and adjustments to those toxicity values, and the toxicity values selected for each COPC to quantify risk. These selected toxicity values are summarized in the USEPA RAGS Part D (USEPA 2001) standardized tables associated with the Dose-Response Assessment:

Table J-6A - Oral/Dermal Non-cancer Toxicity Data

Table J-6B – Inhalation Non-cancer Toxicity Data

Table J-7A - Oral/Dermal Cancer Toxicity Data

Table J-7B - Inhalation Cancer Toxicity Data

The primary purpose of the dose-response assessment is to identify the toxicity values to use in the evaluation of human cancer risks and non-cancer health effects. These toxicity values are combined with the average daily exposures of COPCs to calculate cancer risks



and non-cancer health hazards in the risk characterization step. USEPA has developed toxicity values for cancer and non-cancer effects for certain chemicals. The toxicity values for cancer through inhalation are known as unit risks (URs), and for cancer through ingestion and dermal contact as cancer slope factors (CSFs). The toxicity values for non-cancer effects associated with exposure are known as reference concentrations (RfCs) for inhalation exposures and RfDs for ingestion and dermal exposure.

Toxicity values are used to provide quantitative estimates of the carcinogenic and non-carcinogenic toxicity of COPCs. USEPA recommends the following hierarchy of toxicological sources for Superfund Risk Assessments (OSWER Directive 9285.7-53, December 5, 2003):

Tier 1 - USEPA's Integrated Risk Information System (IRIS).

Tier 2 - USEPA's Provisional Peer Reviewed Toxicity Values (PPRTVs) – The Office of Research and Development / National Center for Environmental Assessment (NCEA) / Superfund Health Risk Technical Support Center (STSC) develops PPRTVs on a chemical specific basis as requested by USEPA's Superfund program. These values are available upon request through the project USEPA Risk Assessor.

Tier 3 - Other toxicity Values - Includes additional USEPA and non-EPA sources:

California Environmental Protection Agency (CalEPA) toxicity values (http://www.oehha.ca.gov/risk/ChemicalDB)

The Agency for Toxic Substances and Disease Registry (ATSDR) Minimal Risk Levels (MRLs) (http://www.atsdr.cdc.gov/mrls.html)

The most technically defensible toxicity values available, based on the USEPA guidance and hierarchy, were used to evaluate the COPCs in this risk assessment.

4.10 CANCER EFFECTS

Carcinogenicity is described in two ways: 1) quantitatively, with Cancer Slope Factor (CSF) toxicity values expressed in units of $(mg/kg-day)^{-1}$ and unit risks (URs) with units of $(\mu g/m^3)^{-1}$; and 2) qualitatively with the USEPA (2005a) Guidelines for Carcinogen Risk Assessment.

The CSF is used with exposure information to provide a conservative estimate of the likelihood that an individual will develop cancer as a result of lifetime exposure to a chemical. It is a plausible upper-bound estimate of carcinogenic potency used to calculate cancer risk from exposure to carcinogens by relating lifetime average contaminant intake to the incremental probability of an individual developing cancer over a lifetime. The oral CSFs used in this risk assessment are expressed as risk per unit dose, in units of incremental cancer risk per milligram of contaminant per kilogram of body weight per day (mg/kg-d)⁻¹. The inhalation URs used in the risk assessment are expressed as risk per unit exposure, in units of incremental cancer risk per microgram per cubic meter of air breathed per day. Cancer potency is directly proportional to the CSF and UR values; the larger the CSF and UR, the greater the cancer potency of the compound.

CSFs and URs provide quantitative estimates of the carcinogenic potency of a chemical in humans. They are derived from a mathematical extrapolation of the slope of the doseresponse curve from high doses to the low doses commonly experienced in the

environment. The larger the CSF or UR is, the greater the cancer potency of the chemical is.

The Guidelines for Carcinogen Risk Assessment (USEPA 2005a) classify human carcinogenic potential as "Carcinogenic to Humans," "Likely to Be Carcinogenic to Humans," "Suggestive Evidence of Carcinogenic Potential," "Inadequate Information to Assess Carcinogenic Potential," and "Not Likely to Be Carcinogenic to Humans". In addition, the IRIS assessment for cancer effects provides a hierarchy of toxicity values based on routes of exposures and how this was applied in the assessment.

For chemicals identified as carcinogens, USEPA (2005b) recommends identifying the carcinogenic "mode of action" (i.e., how the chemical causes cancer) to account for potential increased susceptibility of children to certain types of carcinogens when estimating risk. The mode of action for PCBs has not been identified. carcinogens with a genotoxic mode of action (i.e., causes cancer as a result of direct damage to Deoxyribonucleic acid, or DNA), USEPA (2005b) has concluded that: 1) children are more susceptible than adults; and 2) the quantitative risk assessment methods should be modified to account for this increased susceptibility during childhood. Per USEPA (2005b), "When the mode of action cannot be established ... No general adjustment is recommended at this time." Consistent with this guidance, the cancer toxicity values for PCBs have not been adjusted to account for potential increased susceptibility of children during early life exposure, since the carcinogenic modes of action have not been identified. Note that per USEPA (2005b), "[t] his policy choice [i.e., not adjusting the toxicity values] is consistent with past U.S. EPA practice that has been favorably evaluated over the years. The result would be expected to produce plausible upper bound [i.e., health protective] risk estimates..."

4.20 NON-CANCER EFFECTS

Non-carcinogenic chemical toxicity is described by the RfD, in units of mg/kg-day, for ingestion exposures, and by the RfC, in units of mg/m³, for inhalation exposures. RfDs and RfCs are available for chronic and subchronic exposures, and each published RfD and RfC has an associated degree of confidence (low, medium, or high). An RfD or RfC, unlike the CSF or UR, is based on the threshold dose theory, which assumes that there is

⁵ The carcinogenic potential classification presented in Tables J-7A and J-7B is from the USEPA IRIS, which uses the USEPA (1996) Weight-of-Evidence classification scheme (A through E) for many chemicals. The weight-of-evidence evaluation considers available test data, adequacy of studies, types of studies, and observed responses. Chemicals that give rise to cancer or gene mutations are generally classified as follows:

[•] Group A: Human Carcinogen, sufficient human data

Group B1: Probable Human Carcinogen, limited human data

[•] Group B2: Probable Human Carcinogen, sufficient evidence in animals and limited evidence or no evidence in humans

[•] Group C: Possible Human Carcinogen, limited evidence in animals and limited or no evidence in humans

[•] Group D: Not Classifiable as to Human Carcinogenicity, insufficient tests for carcinogenesis or mutagenesis are available

[•] Group E: Evidence of Non-Carcinogenicity in Humans

an experimentally determined threshold dose below which adverse effects are not expected to occur in a large human population, including sensitive subgroups.



Exposure to these chemicals must overwhelm organic homeostatic, compensating, and adaptive mechanisms before a toxic endpoint can occur. Thus, RfDs and RfCs are benchmarks designed to fall at or below the lowest threshold for toxic effects among the population to be protected.

USEPA defines the RfD as,

An estimate (with uncertainty spanning perhaps an order of magnitude) of a daily oral exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime. It can be derived from a no-observed-adverse-effect level (NOAEL), lowest-observed-adverse-effect level (LOAEL), or benchmark dose, with uncertainty factors generally applied to reflect limitations of the data used.

USEPA defines the RfC as,

An estimate (with uncertainty spanning perhaps an order of magnitude) of a continuous inhalation exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime. It can be derived from a NOAEL, LOAEL, or benchmark concentration, with uncertainty factors generally applied to reflect limitations of the data used.

4.30 AROCLORS WITH NO PUBLISHED TOXICITY VALUES

Some aroclors may be toxic to people but have an inadequate toxicity database to support the derivation of toxicity values. In this assessment, RfD for Aroclor-1254 was used for all the other aroclors that were identified as COPCs. The aroclors identified as COPCs include Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260. These aroclors contain approximately 32% to 60% chlorine by weight; GZA considered it reasonable to use the RfD for Aroclor-1254, which contains approximately 54% chlorine in weight, as a conservative approach based on knowledge of the mechanism(s) of toxicity and structural similarity.

To evaluate potential risks associated with PCB exposure, an upper-bound cancer slope factor of 2.0 per mg/kg-day proposed by IRIS for PCBs with high risk and persistence was used for each aroclor identified as the COPC in this risk assessment⁶. Further, in accordance with the IRIS file for PCBs, GZA converted the upper-bound CSF for PCBs with high risk and persistence (2 mg/kg/day) to a unit risk assuming a body weight of 70 kg and inhalation rate of 20 m³/day to estimate cancer risk from inhalation of aroclors in dust.

⁶ Although the sum of aroclors is not presented as the EPC, the aroclors were evaluated separately with the same cancer slope factors and unit risks and the risks were summed up among the aroclors identified as the COPCs. This approach addresses the cumulative risks from aroclors.



Chronic RfDs and RfCs are ideally based on chronic exposure studies in humans or animals. Chronic exposure for humans is considered to be exposure of roughly seven years or more, based on exposure of monkeys for one year or more in animal toxicity studies. Construction workers and emergency/utility workers at the Site were assumed to be exposed to the contaminants for 1 year; therefore, subchronic RfDs and RfCs would be appropriate to evaluate the non-carcinogenic threshold effects. For this risk assessment, chronic RfDs and RfCs were used to conservatively assess risks for these receptors.

USEPA did not develop a RfC for PCBs in the IRIS assessment. This risk characterization developed an inhalation RfC based on the extrapolation from the oral RfD as a conservative approach.

4.40 CONVERSION OF ORAL TOXICITY VALUES TO DERMAL TOXICITY VALUES

In estimating toxicity from a particular chemical it is important that the toxicity value (RfDs, RfCs, CSFs, or URs) used for that chemical and the exposure estimate calculated for that chemical are both expressed as absorbed doses or as intakes.

Most toxicity values are based on administered doses, or intakes. The administered dose in a toxicity study used for derivation of toxicity values is typically the amount of a chemical given orally to an organism. Thus, since doses calculated for the ingestion pathway are based on intake, they are typically comparable to the toxicity values for the COPCs.

Dermal absorbed doses (DADs) calculated for the dermal exposure pathway, however, represent absorbed doses rather than administered doses. An absorbed dose is the amount of a COPC penetrating the exchange boundaries, (e.g., skin) of an organism after contact. The DAD equation for the dermal exposure pathway includes a chemical-specific absorption efficiency factor that accounts for the amount of COPC that permeates the skin and is absorbed by the body. Therefore, toxicity values based on administered doses must be adjusted to represent absorbed doses before comparing to DADs from the dermal route of exposure. The USEPA (2004) Supplemental Guidance for Dermal Risk Assessment was used to adjust oral toxicity values to dermal toxicity values. The adjustment, shown in the equations below, consists of multiplying the oral RfD, or dividing the CSF, by the chemical-specific absorption efficiency factor to account for the fraction of the administered dose that is absorbed.

Carcinogens:

$$CSF_{ABS} = \frac{CSF_o}{ABS_{GI}}$$

Non-carcinogens:

$$RfD_{ABS} = RfD_o \times ABS_{GI}$$

where:

CSF_{ABS} = Absorbed cancer slope factor (mg/kg-day)⁻¹

CSF_o = Oral cancer slope factor (mg/kg-day)⁻¹

 $RfD_{ABS} =$ Absorbed reference dose (mg/kg-day)

RfD_o = Oral reference dose (mg/kg-day)

 ABS_{GI} = Fraction of contaminant adsorbed in the gastrointestinal tract (dimensionless) in the critical toxicity study.

In accordance with USEPA (2004), the oral to dermal adjustments are not performed for PCBs. The oral absorption efficiency (ABS_{GI}) for evaluation of dermal exposures is presented in Tables J-6A and J-7A, for each COPC.

5.00 RISK CHARACTERIZATION

To characterize risk, toxicity and exposure assessments were summarized and integrated into quantitative expressions of risk. To characterize potential non-carcinogenic effects, comparisons were made between estimated intakes of substances and toxicity values. To characterize potential carcinogenic effects, probabilities that an individual will develop cancer over a lifetime of exposure were evaluated from estimated intakes and chemical-specific dose-response information.

5.10 NON-CARCINOGENIC EFFECTS

The potential for non-carcinogenic effects is evaluated by comparing an exposure level over a specified period with a RfD derived for a similar exposure period. This ratio of exposure to toxicity is called a hazard quotient according to the following equation:

Non-cancer Hazard Quotient = I/RfD

where:

I = Intake or Absorbed Dose (mg/kg-day)

RfD = Reference Dose (mg/kg-day)

The non-cancer hazard quotient assumes that there is a level of exposure (i.e., an RfD) below which it is unlikely for even sensitive populations to experience adverse health effects. If the intake or absorbed dose exceeds the threshold (i.e., If I/RfD exceeds one), there may be concern for potential non-cancer effects.

To assess the overall potential for non-carcinogenic effects posed by more than one chemical, a hazard index (HI) approach has been developed by the USEPA. This approach assumes that simultaneous sub-threshold exposures to several chemicals could result in an adverse health effect. It also assumes that the magnitude of the adverse effect will be proportional to the sum of the ratios of the sub-threshold exposures to respective acceptable exposures.

This is expressed as:

$$HI = I_1/RfD_1 + I_2/RfD_2 + ... + I_i/RfD_i$$

where:

I_i = the Intake or absorbed dose of the ith COPC, and

RfD; = the reference dose for the ith COPC.

USEPA has set a non-carcinogenic hazard effect target limit value of 1. While any single chemical with an exposure level greater that the toxicity value will cause the HI to exceed one, for multiple chemical exposures, the HI can also exceed one even if no single chemical exposure exceeds its RfD. The assumption of dose additivity reflected in the HI is best applied to compounds that induce the same effects by the same mechanisms. Applying the HI to cases where the known compounds do not induce the same effect may overestimate the potential for effects. To assess the overall potential for non-carcinogenic effects posed by several exposure pathways, the total HI for chronic exposure is the sum of the HI's for each pathway, for each receptor.

5.20 CARCINOGENIC EFFECTS

For carcinogens, risks are estimated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to the potential carcinogen (i.e., excess individual lifetime cancer risk). The slope factor converts estimated daily intakes or absorbed dose averaged over a lifetime of exposure directly to incremental risk of an individual developing cancer. It can generally be assumed that the dose-response relationship will be linear in the low-dose portion of the multistage model dose-response curve. Under this assumption, the slope factor is a constant, and risk will be directly related to intake. Thus, the following linear low-dose equation was used in this assessment:

$$Risk = CDI \times SF$$

where:

Risk = A unitless probability of an individual developing cancer,

CDI = Chronic Daily Intake over 70 years (mg/kg-day), and

 $SF = Slope Factor (mg/kg-day)^{-1}$

For simultaneous exposure to several carcinogens, the USEPA assumes that the risks are additive. That is to say:

$$Risk_T = Risk_1 + Risk_2 + ... + Risk_i$$

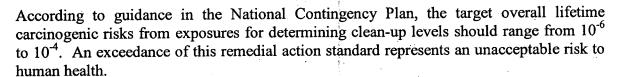
where:

 $Risk_T = Total cancer risk, expressed as a unitless probability, and$

 $Risk_i$ = Risk estimate for the i^{th} COPC.

Addition of the carcinogenic risks is valid when the following assumptions are met:

- doses are low,
- no synergistic or antagonistic interactions occur, and
- similar endpoints are evaluated.



5.30 RISK SUMMARY

Tables J-8A and J-8B summarize the cancer and non-cancer risks for all receptors and exposure routes under the current use scenario and future use scenario, respectively. The risk calculation tables for individual exposure routes are presented in Attachment VI.

5.31 Risk Summary Under Current Use Scenario

The total cancer risk and non-cancer hazard index for current facility worker with exposure to Site soil located in the unpaved portion of the parking lot to the east of the building (i.e., cancer risk of $1x10^{-5}$ and non-cancer hazard index of 1) do not exceed the USEPA target limits (i.e., cancer risk range of $1x10^{-6} \sim 1x10^{-4}$ and hazard index of 1). Therefore, the Site soil poses no significant risks to current facility workers and no COCs were identified for Site soil.

The total cancer risks and non-cancer hazard indices for emergency/utility workers with exposure to Site soil and groundwater (i.e., cancer risk of $7x10^{-7}$ and non-cancer hazard index of 0.3 for both the outside building footprint and within building footprint scenarios) are within the USEPA target limits. Therefore, the Site poses no significant risks to emergency/utility workers.

The total cancer risk and non-cancer hazard index for construction workers with exposure to dust in ambient air (i.e., cancer risk of $2x10^{-7}$ and non-cancer hazard index of 0.3) are within the USEPA target limits. Therefore, the Site poses no significant risks to current construction workers at the Site.

The non-cancer hazard index and total cancer risk for child trespassers with exposure to soil outside the building footprint (i.e., cancer risk of $3x10^{-4}$ and non-cancer hazard index of 37) exceed the USEPA target limits. Therefore, the Site poses significant risks to child trespassers under the current use scenario. Aroclor-1248 was identified as the predominant risk driver for child trespassers. As shown in Table VII-1, the risk-based concentration (RBC) for Aroclor-1248 is 43 mg/kg (versus the current EPC of 1394 mg/kg

⁷ The other aroclors would cause risks at least two magnitudes lower than the risks associated with Aroclor-1248.



for soil outside the building footprint) for trespassers corresponding to the non-cancer hazard index of 1. That is, if the arithmetic mean concentration of surface soil (0-2 feet bgs) for Aroclor-1248 would be reduced to be at or below 43 mg/kg 9 , the non-cancer hazard index and cancer risk would not exceed the USEPA target limits (i.e., hazard index of 1 and cancer risk range of $1 \times 10^{-6} \sim 1 \times 10^{-4}$).

5.32 Risk Summary Under Future Use Scenario

The total cancer risks and non-cancer hazard indices for emergency/utility workers with exposure to Site soil and groundwater (i.e., cancer risk of $7x10^{-7}$ and non-cancer hazard index of 0.3 for both the outside building footprint and within building footprint scenarios) are within the USEPA target limits. Therefore, the Site poses no significant risks to emergency/utility workers and no COCs were identified for Site soil or groundwater.

The total cancer risks and non-cancer hazard indices under future use scenarios for facility workers and hypothetical residential receptors with exposure to Site soils (i.e., cancer risk of $4x10^{-4}$ and non-cancer hazard index of 30 for the within building footprint scenario and cancer risk of $2x10^{-3}$ and non-cancer hazard index of 131 for the outside building footprint scenario) are above the USEPA target limits. Therefore, the Site poses significant risks to these two populations.

The non-cancer hazard indices for construction workers with exposure to Site soil and groundwater (i.e., 75 and 34 for the within building footprint and outside building footprint scenarios, respectively) are above the USEPA target limit. The total cancer risks for construction workers with exposure to Site soil and groundwater (i.e., $4x10^{-5}$ and $2x10^{-5}$ for the within building footprint and outside building footprint scenarios, respectively) are within the USEPA target limits.

The non-cancer hazard indices for child trespassers with exposure to Site soil (i.e., 8 and 37 for the within building footprint and outside building footprint scenarios, respectively) are above the USEPA target limit. The total cancer risk for child trespassers with exposure to soil outside the building footprint $(3x10^{-4})$ is above the USEPA target limits while the total cancer risk for child trespassers with exposure to soil within the building footprint $(6x10^{-5})$ is within the USEPA target limits.

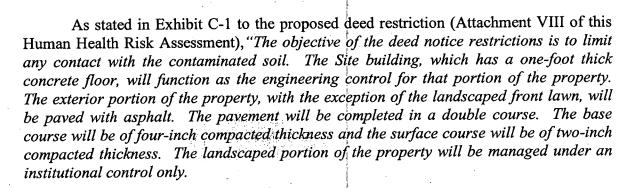
In summary, the Site poses significant risks to future receptors. PCBs in the form of aroclors were identified as COCs for Site soil and groundwater. It should be noted that a deed notice with engineering controls are proposed for the Site The engineering controls will consist of the installation and maintenance of pavement and maintenance of building structures where PCB-containing soils are present;

⁸ The RBCs were calculated for non-cancer hazard based on the non-cancer hazard index limit of 1 and for cancer risk based on the cancer risk limit of 1x10⁻⁴, respectively. The lower value of the two RBCs was used as the RBC.

⁹ The five highest concentrations of Aroclor-1248 in surface soil were detected at SB-147-2 (2800 mg/kg), SB-110-2 (625 mg/kg), EPA-3-1 (58 mg/kg), SB-148-2 (54.2 mg/kg), and SB-108-2 (42.9 mg/kg). The Aroclor-1248 levels in the rest of the surface soil samples were at or below 10.7 mg/kg.

The deed notice will consist of:

- Restricting activities that can disturb soils at the Site;
- Biennial monitoring and inspection of the capping; and
- Preparation of a Health and Safety Plan and Soil Management Plan for any future construction or other subsurface activities at the Site, other than emergency subsurface utility work.



A detailed discussion of the deed restriction presented in the Remedial Action Workplan Report that is to be submitted to NJDEP and USEPA is also attached in Attachment VIII. In summary, an impermeable engineered cap will be constructed for areas not already covered by the building to prevent the migration of PCBs outside of the area and prevent or minimize human exposure, infiltration of water, and erosion. The cap will constitute a uniform placement of a minimum six-inch asphalt surface that will have sufficient strength to maintain its effectiveness and integrity when exposed to the environment. The cap will comply with the permeability, sieve, liquid limit, and plasticity index parameters described in 40 CFR 761.75(b)(1)(ii) through (b)(1)(v). A New Jerseylicensed professional engineer will inspect the engineering controls on the Site on a biennial basis as required by the Technical Requirements for Site Remediation (TRSR). The controls will be repaired or replaced as necessary soon after the inspection. After completing the inspection, the engineer will certify to the NJDEP through the biennial certification monitoring report that the remedial action remains protective of the public health and safety and of the environment. If the cap is disturbed, it must be restored with the appropriate materials. Stormalista in

In addition, a groundwater Classification Exception Area (CEA) are proposed for the Site. The CEA will prohibit use of groundwater as drinking water or for other intake purposes. GZA notes that a CEA established through the Caldwell Trucking Superfund case is already in place at the entire Site that prohibits groundwater uses. Thus, the proposed Site CEA will provide additional protection from exposure to PCB-contaminated groundwater for the various subject populations. The proposed CEA is bounded by monitoring wells MW-1, MW-3, and MW-5 to the south, and by the property boundaries north of these wells to the east, north, and west (see attached Figure). No PCBs were detected in the three referenced monitoring wells. A steep southern groundwater gradient along the northern property boundary prevents PCBs from migrating off-site to the north.

A shallow groundwater table to the east of the Site on 30 Sherwood Lane prevents PCBs from migrating off-site to the east.

With the deed restriction in place, Site soil will not be accessible by any future receptors, with the exception of emergency/utility workers. As shown in **Table J-8B**, the Site poses no significant risks to emergency/utility workers. As the exposure pathways to Site contaminants are not complete for future receptors such as construction workers, landscapers, facility workers, and Site visitors with the deed notice, engineering controls, and CEA in place, the Site would pose no significant risks to future receptors.

6.00 UNCERTAINTY

All risk assessments involve the use of assumptions and professional judgments to varying degrees. This results in uncertainty in the final estimates of risk. There are uncertainties associated with each component of the risk assessment from data collection through risk characterization. The uncertainty associated with the four major steps (site characterization and data evaluation, exposure assessment, toxicity assessment, and risk characterization) of the risk assessment are discussed below.

6.10 UNCERTAINTY IN SITE CHARACTERIZATION AND DATA EVALUATION

The HHRA was conducted based on all data available for the Site. More than 300 soil samples and nine groundwater samples were included in the HHRA. In general, the samples were collected biased toward overestimation of chemical concentrations at the Site. The quantity of the soil and groundwater samples and the biased sampling approach indicate the uncertainty associated with Site characterization is low.

Uncertainty in contaminant identification is considered low because the Site has been extensively investigated for the presence of PCBs.

Chemicals were screened against applicable risk-based screening values and only those with the maximum detected concentrations exceeding the screening values were included in the risk characterization. Certain aroclors were not detected in certain exposure points and therefore were not included in the risk characterization. This could lead to a potential underestimate of cumulative risks if the aroclors exist at levels below the reporting limits. However, the laboratory reporting limits for the aroclors were generally low (i.e., several magnitudes lower than the EPCs). Therefore, the uncertainty associated with this approach is expected to be minimal and not to impact the risk characterization results.

6.20 UNCERTAINTY IN EXPOSURE ASSESSMENT

Factors that can contribute to uncertainty in the exposure assessment include identification and evaluation of exposure pathways, assumptions for scenario development, intake parameters, and derivation of exposure point concentrations.

The identification of potential exposure pathways and receptors is consistent with the USEPA guidance and the Site's reasonable current use and foreseeable future land use.



Values used in calculations for intakes (e.g., soil ingestion rate, inhalation rate, and exposure frequencies) are based primarily on the USEPA guidance. These assumptions may result in underestimating or overestimating the intakes calculated for specific receptors, depending on the accuracy of the assumptions relative to actual Site conditions and uses. In general, upper bound values were selected for each exposure factor for the RME scenario. In the calculations of exposure, these multiple upper-bound exposure factor estimates compound to yield intakes and absorbed doses that overestimate likely exposure levels.

The 95% UCL, or other appropriate UCL recommended by USEPA, of the mean or the maximum detected concentration was used to represent exposure point concentration and to calculate site-related risks. This is a conservative approach which tends to overstate potential risks. The EPCs derived from the measured chemical concentrations were assumed to persist without change for the entire duration of each exposure scenario. It is likely that some degradation would occur over time, particularly for some of the organic compounds, which would reduce the current concentrations. Therefore, this steady state assumption tends to overestimate exposure levels.

To accurately quantify potential exposures from ingestion of soil, it is important to consider the amount of a chemical that is solubilized in gastrointestinal fluids and absorbed across the gastrointestinal tract into the bloodstream. A chemical present in soil may be absorbed less completely than the same dose of the chemical administered in toxicity studies used to evaluate safe dose levels. A relative bioavailability estimate for a specific compound represents the absorption fraction from soil (the exposure route of concern) relative to the absorption fraction from food or water (in most toxicity studies, chemical doses are administered in food or water).

For this HHRA, bioavailability for all COPCs at the Site was assumed to be one. That is, COPCs in affected media were assumed to be absorbed to the same degree as they were absorbed in the toxicity study from which the toxicity values were developed. This is a very conservative assumption, especially for soil. Chemicals can form complexes with soil particles, thus reducing their ability to be absorbed, or their bioavailability. Therefore, the potential risks will be overstated assuming bioavailability of one.

Default dermal absorption values recommended by USEPA (2004) were used for this risk assessment. Because various factors affect the efficiency of dermal absorption, there is considerable uncertainty associated with these values. In addition, many compounds are only absorbed through the skin after a long exposure duration (i.e., >24 hours). Since most individuals bathe at least once each day, washing may remove any soil residues adhering to the skin before absorption can occur. Therefore, dermal absorption rates based on studies with long exposure durations may overestimate actual absorption.

In calculating receptor-specific doses for the quantitatively evaluated scenarios, the most health-protective of the default range of values available was used. Receptor-specific parameters, such as contact and ingestion rates, were obtained from usepa guidance. When the default assumptions were not available, conservative assumptions were made to err on the side of protecting human health.

6.30 UNCERTAINTY IN TOXICITY ASSESSMENT



Uncertainty is inherent in the toxicity values used in characterizing the carcinogenic and non-carcinogenic risks. Such uncertainty is chemical-specific and is incorporated into the toxicity value during its development. For example, an uncertainty factor may be applied for interspecies and intrahuman variability, for extrapolation from subchronic to chronic exposures, and/or for epidemiological data limitations. Most cancer slope factors are calculated using a model that extrapolates low dose effects from high dose animal studies. Because toxicity constants are generally based on the upper limit of the 95-percentile confidence interval or incorporate safety factors to compensate for uncertainty, chemical-specific risks may be overestimated. In addition, chronic toxicity values were used to evaluate subchronic non-cancer risks in this baseline risk assessment due to the general lack of subchronic toxicity values. This practice will potentially overstate risks for the construction worker and the emergency/utility worker.

Toxicity information was not available for dermal exposure. This is due to the lack of scientific studies available to quantify dermal toxicity and carcinogenic potential for the vast majority of priority pollutants and because chemical specific information needed to convert ingested dose to absorbed dose is not available. In accordance with the USEPA (2004) guidance, oral toxicity values were used with adjustment to calculate risks from dermal exposure. The dermal toxicity value developed using this approach may result in over or under estimation of potential risks associated with dermal exposure.

6.40 UNCERTAINTY IN RISK CHARACTERIZATION

As with the evaluation of EPCs, the use of conservative assumptions and parameters to develop risk estimates would be expected to err on the side of protecting human health. Thus, the calculated hazard indices and cancer risk estimates are likely to result in upper bound estimates of the hazard resulting from exposure to PCBs present in soil and groundwater at the Site.

7.00 RISK ASSESSMENT AND RISK MANAGEMENT CONCLUSION

The total cancer risk and non-cancer hazard index presented by Site soils for current facility workers, emergency/utility workers, and hypothetical residential receptors do not exceed the USEPA target limits (i.e., cancer risk range of $1x10^{-6} \sim 1x10^{-4}$ and hazard index of 1). Therefore, the Site soil poses no significant risks to these populations.

The non-cancer hazard index and total cancer risk for child trespassers with exposure to soil outside the building footprint exceed the USEPA target limits (i.e., cancer risk above the range of 1×10^{-6} and 1×10^{-4} and hazard index above 1). Therefore, the Site soils contaminated with PCBs located within two feet of the surface outside the building footprint pose significant risks to child trespassers under the current use scenario. Deeper soils are not considered accessible to child trespassers and do not pose significant risks to that population. A remedial action is proposed to reduce the Aroclor-1248 levels in surface soil (0 to 2 feet bgs) to a concentration at or below 43 mg/kg.

To protect other populations from exposure to PCB-contaminated soils, a deed notice, engineering controls, and a groundwater Classification Exception Area (CEA) are proposed to be imposed at the Site. The deed notice and engineering controls will consist of the following elements:



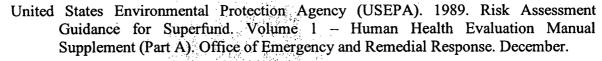
- The installation and maintenance of pavement and maintenance of building structures where PCB-containing soils are present;
- Restricting activities that can disturb soils at the Site; and
- Preparation of a Health and Safety Plan and Soil Management Plan for any future construction or other subsurface activities at the Site, other than emergency subsurface utility work.

The CEA will prohibit use of groundwater as drinking water or for other intake purposes. It should be noted that a CEA established through the Caldwell Trucking Superfund case is already in place at the Site. Thus, the proposed Site CEA will provide double protection from exposure to PCB-contaminated groundwater for the various subject populations.

With the proposed soil removal remedial action, CEA, engineering controls, and the deed notice in place, PCBs in Site soil and groundwater would pose no significant risks to potential receptors under the current and future use scenarios. No remedial action is warranted for soil located deeper than 2 ft bgs, given the implementation of the proposed deed notice, engineering controls, and CEA.

8.00 REFERENCES

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ATTACHMENT I

RISK CHARACTERIZATION LIMITATIONS

- 1. The interpretations and conclusions presented in this report were based solely upon the services described herein, and not on scientific tasks or procedures beyond the scope of described services. The work described in this report was carried out in accordance with the agreed upon Terms and Conditions.
- 2. GZA's risk characterization was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time. The findings of the risk characterization are dependent on numerous assumptions and uncertainties inherent in the risk assessment process. Sources of uncertainty may include the description of site conditions and the nature and extent of chemical distribution and the use of toxicity information. Consequently, the findings of the risk characterization are not an absolute characterization of actual risks, but rather serve to highlight potential sources of risk at the site. Although the range of uncertainties has not been quantified, the use of conservative assumptions and parameters throughout the assessment would be expected to err on the side of protection of human health and the environment.
- 3. The analysis and conclusions submitted in this report are based upon chemical data collected by GZA and other consultants during investigations of the site.
- 4. This report has been prepared for the exclusive use of Unimatic Manufacturing Company for specific application to the Former Unimatic Manufacturing Co. Facility located at 25 Sherwood Lane, Fairfield, New Jersey, in accordance with generally accepted risk assessment practices. No other warranty, express or implied, is made.

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TABLE J-1
EXPOSURE PATHWAYS
Unimatic Manufacturing Corp
25 Sherwood Lane
Fairfield, New Jersey 07004
ISRA Case # E20010335

File No. 75418.20 Page 1 of 3 10/11/2010

Source	Environmental Media	Point of Exposure	Routes of Exposure	Exposed Population	Time Frame	Exposure Status	Rationales	Exposure Point Location and Depth (feet)
PCBs in Soil <15 feet below ground surface	On-Site Soil	Contacting Soil	Dermal Contact and Incidental Ingestion	Trespassers/Site Visitors	Current	Potential	The Site is currently used as a warehouse/distribution facility and is undergoing remedial action activities. Although frequent visit by trespassers or other Site visitors is not expected, trespassers and Site visitors may be exposed to impacted surface soil (<2 feet below ground surface)outside the building.	0-2 (outside building)
	· .	j. e			Future	Betantial		0-2 (outside building) 0-15 (within building footprint)
				Facility Workers	Current	Potential	The parking lot located to the west of the building is paved and the parking lot located to the east side of the building is partially paved. Facility workers may be exposed to surface soil in the unpaved portion of the parking lot. Soil within the building footprint is not accessible.	Backfili material in unpaved parking area
					Future	Potential		0-2 (outside building) 0-15 (within building footprint)
			****	Utility Emergency Repair Workers	Current	Potential	Utility lines for the Site building are located south of the building, where contamination is absent. Nonetheless, emergency/utility workers were evaluated in this risk assessment as a conservative approach.	0-6 (outside building) 0-15 (within building footprint)
					Future	Potential	Utility emergency repair workers may be exposed to residual PCBs in soil in the future if utility lines were constructed within the area where contamination is detected.	0-6 (outside building) 0-15 (within building footprint)
· ·		•		Residents 1	Current	Not Complete	The Site is not currently used for residential purposes.	
			·		Future	Potential	The Site is zoned for industrial usage, and would have to be rezoned if it is to be used for residential purposes in the future. Nonetheless, hypothetical future residents were evaluated in this risk assessment to assess whether or not the deed notice is warranted.	0-2 (outside building) 0-15 (within building footprint)
			Dermal Contact, Incidental Ingestion, Inhalation of Dust	Construction Workers	Current	Potential	Remediation workers at the Site are performing work in accordance with Health and Safety Plan. Direct contact (ingestion and dermal contact) with soil is not considered a complete exposure pathway. Inhalation of soil-derived dust is considered a potential exposure pathway.	within building footprint)
·					Future	Potential	Construction workers may contact soil during subsurface excavations and be exposed to residual PCBs in soil.	0-15 (outside and within building footprint)

TABLE J-1 EXPOSURE PATHWAYS Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case # E20010335

Source	Environmental Media	Point of Exposure	Routes of Exposure	Exposed Population		Exposure Status	Rationales	Exposure Point Location and Depth (feet)
PCBs in Soil >15 feet below ground surface	On-Site Soil	Contacting Soil	Dermal Contact, Incidental Ingestion, Inhalation of Dust	Trespassers/Site Visitors, Facility Workers, Construction Workers, Utility Emergency Repair Workers, and Residents	Current and Future	Not Complete	Deep soil is not accessible by current or future receptors.	
	Groundwater or		Ingestion, dermal contact, and inhalation (showering and other uses)	Off-Site Property Users and Construction Workers	Current and Future	Not Complete	Leaching of PCBs from on-Site deep soil and impacting off-Site groundwater or surface water is not a significant transport mechanism because PCBs adsorb strongly to soil particles. PCBs were not detected in off-Site wells.	
PCBs in Groundwater	On-Site Groundwater		and inhalation	Trespassers/Site Visitors, Facility Workers, Construction Workers, Utility Emergency Repair Workers, and Residents	Current and Future	Not Complete	An institutional control is in place at the Site to prohibit use of the groundwater at the Site.	
		Contacting Groundwater	Dermal contact	Construction Workers	Current	Not Complete	Remediation workers at the Site are performing work in accordance with Health and Safety Plan. Direct contact with groundwater is not considered a complete exposure pathway.	·
					Future	Potential	Construction workers may contact groundwater while assembling/disassembling pumps for dewatering purposes.	0-15
	Off-Site Groundwater ^{1,2}	Using and drinking groundwater	Ingestion (drinking), dermal contact (showering), and inhalation (showering and other uses)	Off-Site Property Users	Current and Future	Not Complete	An institutional control is implemented to prohibit use of the groundwater in the area.	-
	And American Adams	Contacting Groundwater	Dermal contact	Construction Workers	Current and Future	Not Complete	Off-Site groundwater is not expected to be impacted by PCBs from the Site due to the following facts: 1. The area outside the Site building is planned to be paved. Therefore, surface runoff is not expected to be impacted by PCBs. 2. Transport of PCBs in groundwater or leaching from on-Site soil and impacting off-Site groundwater is not a significant transport mechanism because PCBs adsorb strongly to soil particles. In addition, PCBs were not detected in off-Site wells.	Transaction angle or party
PCBs in Indoor Air of On-Site Bullding	Indoor Air of On- Site Building	Breathing Indoor Air	Inhalation	Facility Workers, Construction Workers, Emergency/Utility Workers, Trespassers, Residents	Current and Future	Not Evaluated	PCBs in indoor air were not evaluated in this risk assessment and will be addressed separately.	



TABLE J-1 EXPOSURE PATHWAYS Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case # E20010335 File No. 75418.20 Page 3 of 3 10/11/2010

	Media	Point of Exposure	Routes of Exposure	Exposed Population	Time Frame	Exposure Status	Rationales	Exposure Point Location and Depth (feet)
Building Concrete	Building Concrete	1 7		Facility Workers, Construction Workers, Emergency/Utility Workers, Trespassers, Residents	Current and Future		PCBs in building concrete were not evaluated in this risk assessment and will be addressed separately.	
II	Building Interior Surface				Current and Future		PCBs on Building Interior Surface were not evaluated in this risk assessmetn and will be addressed separately.	

PCB = Polychlorinated Biphenyl

Notes:

- 1 A deed notice will be imposed at the Site to require maintenance of the pavement and building structures and to restrict disturbance of soils at the Site.
- 2 It should be noted that there is no evidence of off-Site groundwater or surface water contamination impacted by the Site residual PCBs. These exposure pathways were included in this analysis in an effort to be complete (and conservative).

TABLE J-2A

OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN SOIL

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Scenario Time | Current/Future

Medium:

Soil Exposure Medit Soil

Exposure Point Site (Within and Outside Building Footprint)

CAS	Chemical		Within Buildin	g Footprint			Outside Buildir	ng Footprint		Concentratio		I '	I II
Number		Minimum Detected Concentration ¹ (mg/kg)	Maximum Detected Concentration ¹ (mg/kg)	Location of Maximum Concentration	Detection Frequency ¹	Minimum Detected Concentration ¹ (mg/kg)	Maximum Detected Concentration ¹ (mg/kg)	Location of Maximum Concentration	Detection Frequency ¹	n Used for Screening ² (mg/kg)	g Value ³ (mg/kg)	riag	Contaminant Deletion or Selection 4
53469-21-9 12672-29-6 11097-69-1	Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	0.0445	2530	FT-45	82 / 108	0.25 3.8 0.023 0.015 0.15	0.59 3.8 2800 30 0.73	SPE-10A-20 SB-141-8 SB-147-2 SPE-23 PE-18	2 / 420 1 / 420 309 / 420 39 / 420 4 / 420	0.59 3.8 2800 30 0.73	0.14 0.22 0.22 0.22 0.22	YES YES YES YES YES	ASL ASL ASL ASL ASL

Notes:

- 1. Field duplicates were treated as discrete samples. One Sample and the average of the field duplicates were used for the sample.
- 2. The maximum detected concentration was used for screening.
- 3. USEPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites. On-line resources available at http://www.epa.gov/region9/superfund/prg/index.html. Last updated May 2010.

Target Cancer Risk = 1E-6; Target Hazard Quotient =1. Direct contact exposure (ingestion, dermal contact, and inhalation of soil particulates) is evaluated to derive the RSLs. RSLs based on cancer risk for the aroclors listed in the table.

4. Rationale codes

Selection Reason:

ASL = Above Screening Level

Definitions:

COPC = Chemical of Potential Concern



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OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN IN GROUNDWATER

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Scenario Timeframe:

Current/Future

Medium:

Groundwater

Exposure Medium:

Groundwater

Exposure Point:

On-Site Groundwater

CAS Number	Chemical	Minimum Detected Concentration ¹ (ug/L)	Maximum Detected Concentration ¹ (ug/L)	Location of Maximum Concentration	Detection Frequency ¹	Concentrati on Used for Screening ² (ug/L)			Rationale for Contaminant Deletion or Selection ⁴
11	Aroclor-1242	5.6	14	MW-6	3 / 9	14	0.034	YES	ASL
	Aroclor-1248	0.74	1.9	MW-7	6 / 9	1.9	0.034	YES	ASL

Notes:

- 1. Unfiltered sample results were used for the fitered/unfiltered pair.
- 2. The maximum detected concentration was used for screening.
- 3. USEPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites. On-line resources available at http://www.epa.gov/region9/superfund/prg/index.html. Last updated May 2010.

Target Cancer Risk = 1E-6; Target Hazard Quotient =1. Direct contact exposure (intake and inhalation) is evaluated to derive the RSLs for tap water. RSLs based on cancer risk for the aroclors listed in the table.

4. Rationale codes

Selection Reason:

ASL = Above Screening Level

Definitions:

COPC = Chemical of Potential Concern

SUMMARY OF CONSTITUENTS OF POTENTIAL CONCERN Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 TABLE J-3

File No. 75418.20 Page 1 of 1 8/31/2010

ISRA Case #E20010335

CLASS	ANALYTE	SOIL	GROUNDWATER
<<< PCB >>>	Aroclor - 1232 Aroclor - 1242 Aroclor - 1248 Aroclor - 1254 Aroclor - 1260	COPC COPC COPC	COPC COPC

Notes:

1. Only analytes detected in at least one soil or groundwater sample were evaluated as potential constituents of concern.

Abbreviations:

COPC = constituents of potential concern; PCB = polychlorinated biphenyls

EXPOSURE FACTOR ASSUMPTIONS FACILITY WORKER Unimatic Manufacturing Corp 25 Sherwood Lane

> Fairfield, New Jersey 07004 ISRA Case # E20010335

0. 75418.20 Page 1 of 1 9/2/2010

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Soil Exposure Point: On-Site

Receptor Population: Facility Worker

Receptor Age: Adult

EXPOSURE FROUTE	PARAMENER GODE	NOMINEEUNETEMAKS	UNITE -	RME VALUE	RME RATIONALE	MEREFERENCE
Ingestion of Soil		Soil EPC Body Weight Ingestion Rate Fraction Ingested Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg mg/day unitless days/yr year kg/mg days days	70 100 1 250 25 1E-6 9,125 25,550	Default value for industrial worker. Default value for outdoor worker. Assumng 100% ingestion from site. Default value for Industrial worker. Default value for industrial worker. 25 years. 70 years, default value for carcinogenic effects.	USEPA, 2002. USEPA, 2002. BPJ. USEPA, 2002, 2004. USEPA, 2002, 2004.
Dermal Contact of Soil	SA AF ABS EV EF ED CF AT(Nc)	Soil EPC Body Weight Skin Contact Surface Area Soil/Skin Adherence Factor Dermal Absorption Fraction Event Frequency Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg cm²/event mg/cm² unitless events/day days/yr year kg/mg days days	70 3,300 0.2 0.14 1 250 25 1E-6 9,125 25,550	Default value for industrial worker. Default value for industrial worker. Default value for adherence factor. Default value for PCB. Default value for industrial worker. Default value for industrial worker. Default value for industrial worker. 25 year. 70 years, default value for carcinogenic effects.	USEPA, 2002. USEPA, 2002, 2004. USEPA, 2002, 2004. USEPA, 2004. USEPA, 2004. USEPA, 2002, 2004. USEPA, 2002, 2004. USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equations

Ingestion Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED x CF x FI / (BW x AT) Dermal DI (mg/kg-day) = EPC x SA x AF x ABS x EV x EF x ED x CF/(BW x AT)

Source References:

- · ÜSEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.
- USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual
- (Part E, Supplemental Guidance for Dermal Risk Assessment) Final.
- · BPJ: Best Professional Judgment.

TABLE J-4B

EXPOSURE FACTOR ASSUMPTIONS CONSTRUCTION WORKER Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case # E20010335

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil Exposure Point: On-Site

Receptor Population: Construction Worker

Receptor Age: Adult

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Ingestion of Soil	EPC BW IR FI EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Ingestion Rate Fraction Ingested Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg mg/day unitless days/yr year kg/mg days days	330 1	Surface and subsurface soil EPC. Default value for construction worker. Default value for outdoor worker. Assuming 100% ingestion from site. Default value for construction worker. Default value for construction worker. 1 year. 70 years, default value for carcinogenic effects.	USEPA, 2002. USEPA, 2002. BPJ. USEPA, 2002. USEPA, 2002.
Dermal Contact of Soil	EPC BW SA AF ABS EV EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Skin Contact Surface Area Soil/Skin Adherence Factor Dermal Absorption Fraction Event Frequency Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg cm² mg/cm²-event unitless events/day days/yr year kg/mg days days	70 3,300 0.3 0.14 1 250 1 1E-6 365 25,550	Surface and subsurface soil EPC. Default value for construction worker. Default value for construction worker. Default value for construction worker. Default value for PCB. Default value for construction worker. Default value for industrial worker. Default value for construction worker. 1 year. 70 years, default value for carcinogenic effects.	USEPA, 2002. USEPA, 2002. USEPA, 2002. USEPA, 2004. USEPA, 2002. USEPA, 2002. USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equations:

Ingestion Dermal

Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED x CF x FI / (BW x AT) DI (mg/kg-day) = EPC x SA x AF x ABS x EV x EF x ED x CF/(BW x AT)

Source References:

- · USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.
- · USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual

(Part E, Supplemental Guidance for Dermal Risk Assessment) Final.

· BPJ: Best Professiional Judgment.

QA: CL Date: 7/15/10



TABLE 5-4B (cont'd)
EXPOSURE FACTOR ASSUMPTIONS
CONSTRUCTION WORKER
Unimatic Manufacturing Corp
25 Sherwood Lane
Fairfield, New Jersey 07004

ISRA Case # E20010335

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Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Air Exposure Point: On-Site

Receptor Population: Construction Worker

Receptor Age: Adult

ROUTE		PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Inhalation of Dust in Ambient Air	BW IR EF ED AT(Nc)	Air EPC Body Weight Inhalation Rate Exposure Frequency Exposure Duration Averaging Time - Nc Averaging Time - Car	mg/m ³ kg m³/day days/yr year days days	70 20 250 1 365 25,550	Surface and subsurface soils. Default value for construction worker. Default value for construction worker. Default value for construction worker. Default value for construction worker. 1 year. 70 years, default value for carcinogenic effects.	USEPA, 2002. USEPA, 2002. USEPA, 2002. USEPA, 2002. USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equation:

Inhalation

Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED / (BW x AT)

Source References:

· USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.

e: 7/15/10

TABLE J-4B (cont'd) EXPOSURE FACTOR ASSUMPTIONS CONSTRUCTION WORKER Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case # E20010335

Scenario Timeframe: Current/Future

Medium: Groundwater

Exposure Medium: Groundwater

Exposure Point: On-Site

Receptor Population: Construction Worker

Receptor Age: Adult

=Xi2OSWRE ROUNTE	PARAMETER	PARAMETER DEFINITION	UNITS	RME. VALUE		RME REFERENCE
Dermal Contact of Groundwater	EPC BW SA ED EF EV tevent AT(Nc) AT(Cair)	Groundwater EPC Body Weight Skin Surface Area Exposure Duration Exposure Frequency Event Frequency Event duration (hr/event) Averaging Time - Nc Averaging Time - Car	mg/L kg cm2 years days/yr events/day hr/event days days	70 2,490 1	Dollant value to construction frome.	USEPA, 2002. USEPA, 2009. USEPA, 2002, 2004. BPJ. BPJ. BPJ. USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equation:

Dermal

Dermal Absorbed Dose (DAD) (mg/kg-day) = (DA_{event} x EV x ED x EF x SA) / (BW x AT)

For Inorganics,

DA_{event} = K_o x EPC x t_{event}

For Organics,

If $t_{event} \le t^*$, then: DA_{event} = 2 FA x K_p x EPC ($(6 \tau_{event} \times t_{event}) / \pi$)^{1/2}

if $t_{event} > t^*$, then: $DA_{event} = FA \times K_p \times EPC [(t_{event} / 1 + B) + 2 \tau_{event} ((1 + 3 B + 3 B^2) / (1 + B)^2)]$

Where:

t* = Time to reach steady-state (hr)

τ_{event} = Lag Time per event (hr/event)

Source References:

- · USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.
- USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final.
- · USEPA, 2009: Exposure Factors Handbook
- · BPJ: Best Professional Judgement.



TABLE J-4C

EXPOSURE FACTOR ASSUMPTION CHILD TRESPASSER/VISITOR Unimatic Manufacturing Corp

25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case # E20010335

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil Exposure Point: On-Site

Receptor Population: Child Trespasser/Visitor

Receptor Age: Child (6-18 yr)

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Ingestion of Soil	EPC BW IR FI EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Ingestion Rate Fraction Ingested Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg mg/day unitless days/yr year kg/mg days days	43 100 1 30 12 1E-6 4,380 25,550	Mean body weight for youth (ages 6-18yr). Default soil ingestion rate for youth. Assuming 100% ingestion from site. 1 day per week, 30 weeks per year. Exposure duration from 6 to 18. 12 years. 70 years, default value for human life span.	USEPA, 1997. USEPA, 1997. BPJ. BPJ. USEPA, 2002.
Dermal Contact of Soil	EPC BW SA AF ABS EV EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Skin Contact Surface Area Soil/Skin Adherence Factor Dermal Absorption Fraction Event Frequency Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg cm² mg/cm²-event unitless events/day days/yr year kg/mg days days	43 6,300 0.2 0.14 1 30 12 1E-6 4,380 25,550	Mean body weight for youth (ages 6-18yr). Mean surface area of head, hands, forearms, lower legs, and feet. Default value for child. Chemical-specific. Default value for residential child. 1 day/week, 30 weeks per year. Exposure duration from 6 to 18. 12 years. 70 years, default value for human life span.	USEPA, 1997. USEPA, 1997. USEPA, 2004. USEPA, 2004. USEPA, 2004. BPJ. USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equations:

Ingestion Dermal Daily Intake (DI) (mg/kg-day) = EPC \times IR \times EF \times ED \times CF \times FI / (BW \times AT) DI (mg/kg-day) = EPC \times SA \times AF \times ABS \times EV \times EF \times ED \times CF/(BW \times AT)

Source References:

USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.

· USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual

(Part E, Supplemental Guidance for Dermal Risk Assessment) Final.

· USEPA, 1997: Exposure Factors Handbook.

· BPJ: Best Professional Judgment

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QA: CL Date: 10/11/10

TABLE J-4D EXPOSURE FACTOR ASSUMPTIONS EMERGENCY/UTILITY WORKER Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case # E20010335

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil Exposure Point: On-Site

Receptor Population: Emergency/Utility Worker

Receptor Age: Adult

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Ingestion of Soil	EPC BW IR FI EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Ingestion Rate Fraction Ingested Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg mg/day unitless days/yr year kg/mg days days	70 330 1 1 1 1 1E-6 365 25,550	Surface and subsurface soil EPC. Default value for construction worker. Default value for outdoor worker. Assuming 100% ingestion from site. Assumption. Default value for construction worker. 1 year. 70 years, default value for carcinogenic effects.	USEPA, 2002. USEPA, 2002. BPJ. BPJ. USEPA, 2002.
Dermal Contact of Soil	EPC BW SA AF ABS EV EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Skin Contact Surface Area Soil/Skin Adherence Factor Dermal Absorption Fraction Event Frequency Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg cm² mg/cm²-event unitless events/day days/yr year kg/mg days days days	70 3,300 0.3 1 1 1 1E-6 365 25,550	Surface and subsurface soil EPC. Default value for construction worker. Default value for construction worker. Default value for construction worker. Chemical-specific Default value for construction worker. Assumption. Default value for construction worker. 1 year. 70 years, default value for carcinogenic effects.	USEPA, 2002. USEPA, 2002. USEPA, 2002. USEPA, 2004. USEPA, 2002. BPJ. USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equations:

Ingestion Dermal Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED x CF x FI / (BW x AT)
DI (mg/kg-day) = EPC x SA x AF x ABS x EV x EF x ED x CF/(BW x AT)

Source References:

· USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.

· USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual

(Part E, Supplemental Guidance for Dermal Risk Assessment) Final.

· BPJ: Best Professiional Judgment.



TABLE J-4D (cont'd) EXPOSURE FACTOR ASSUMPTIONS

EMERGENCY/UTILITY WORKER
Unimatic Manufacturing Corp
25 Sherwood Lane

Fairfield, New Jersey 07004 ISRA Case # E20010335

Scenario Timeframe: Current/Future

Medium: Groundwater

Exposure Medium: Groundwater

Exposure Point: On-Site

Receptor Population: Emergency/Utility Worker

Receptor Age: Adult

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Dermal Contact of Groundwater		Groundwater EPC Body Weight Skin Surface Area Exposure Duration Exposure Frequency Event Frequency Event duration (hr/event)	mg/L kg cm2 years days/yr events/day hr/event	70 2,490 1 1 1 0.5	EPC of groundwater screened within 20 feet. Default value for construction worker. Maximum surface area for adult male (including hands and forearms). Default value for construction worker. Assumes contact with groundwater during the emergency repair work. Assumption. Assumes half hour to assemble or disassemble a pumping system.	USEPA, 2002. USEPA, 1997. USEPA, 2002, 2004. BPJ. BPJ. BPJ.
	AT(Nc) AT(Cair)	Averaging Time - Nc Averaging Time - Car	days days	365 25,550	1 year. 70 years, default value for carcinogenic effects.	USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equation:

Dermal

Dermal Absorbed Dose (DAD) (mg/kg-day) = (DA_{event} x EV x ED x EF x SA) / (BW x AT)

For Organics,

If $t_{event} \le t^*$, then: DA_{event} = 2 FA x K_p x EPC ((6 t_{event} x t_{event}) / t_{event}

if $t_{event} > t^*$, then: $DA_{event} = FA \times K_p \times EPC [(t_{event} / 1 + B) + 2 \tau_{event} ((1 + 3 B + 3 B^2) / (1 + B)^2)]$

Where:

t* = Time to reach steady-state (hr)

τ_{event} = Lag Time per event (hr/event)

Source References:

USEPA, 1997: Exposure Factors Handbook

· USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.

· USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual

(Part E, Supplemental Guidance for Dermal Risk Assessment) Final.

BPJ: Best Professional Judgement.

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TABLE J-4E EXPOSURE FACTOR ASSUMPTIONS CHILD RESIDENTS Unimatic Manufacturing Corp 25 Sherwood Lane

Fairfield, New Jersey 07004 ISRA Case # E20010335

Scenario Timeframe: Future

Medium: Soil

Exposure Medium: Soil
Exposure Point: On-Site

Receptor Population: Child Residents

Receptor Age: Child

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Ingestion of Soil	EPC BW IR FI EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Ingestion Rate Fraction Ingested Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg mg/day unitless days/yr year kg/mg days days	15 200 1 350 6 1E-6 2,190 25,550	Default value for child (ages 0-6yr). Default soil ingestion rate for child. Assuming 100% ingestion from site. Default exposure frequency for residential receptor. Default exposure duration. 6 years. 70 years, default value for human life span.	USEPA, 2002. USEPA, 2002. BPJ. USEPA, 2004, 2002. USEPA, 2002.
Dermal Contact of Soil	EPC BW SA AF ABS EV EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Skin Contact Surface Area Soil/Skin Adherence Factor Dermal Absorption Fraction Event Frequency Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg cm² mg/cm²-event unitless events/day days/yr year kg/mg days days	15 2,800 0.2 0.14 1 350 6 1E-6 2,190 25,550	Default value for child. Default value for child. Default RME value for child. Default value for PCB. Default value for residential child. Default exposure frequency for residential receptor. Default exposure duration. 6 year. 70 years, default value for human life span.	USEPA, 2002. USEPA, 2002, 2004. USEPA, 2002, 2004. USEPA, 2004, 2002. USEPA, 2004, 2002. USEPA, 2002. USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equations:

Ingestion Dermal Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED x CF x FI / (BW x AT)

DI (mg/kg-day) = EPC x SA x AF x ABS x EV x EF x ED x CF/(BW x AT)

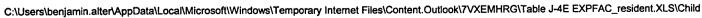
Source References:

- · BPJ: Best Professional Judgement.
- · USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.
- · USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual

(Part E, Supplemental Guidance for Dermal Risk Assessment) Final.

QA: CL Date: 7/15/10





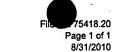


TABLE 6-4E (cont'd) EXPOSURE FACTOR ASSUMPTIONS CHILD RESIDENTS Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case # E20010335

Scenario Timeframe: Future

Medium: Soil.

Exposure Medium: Soil Exposure Point: On-Site

Receptor Population: Adult Residents

Receptor Age: Adult

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Ingestion of	EPC	Soil EPC	mg/kg		A STATE OF THE STA	
Soil	. BW	Body Weight	kg	70	Default value for adult.	USEPA, 2002.
	IR ·	Ingestion Rate Fraction Ingested	mg/day	100	Default soil ingestion rate for residential adult.	USEPA, 2002.
	FI	Exposure Frequency	unitiess	i 1	Assuming 100% ingestion from site.	BPJ.
	EF	1	days/yr	350	Default exposure frequency for	USEPA, 2004,
		Exposure Duration			residential receptor.	2002.
-	ED	Conversion Factor	year	24	Default RME exposure duration.	USEPA, 2002.
	CF	Averaging Time - Nc	kg/mg	1E-6		
	AT(Nc)	Averaging Time - Car	days	8,760	24 years.	
	AT(Cair)		days	25,550	70 years, default value for human life	USEPA, 2002.
Dermal	EPC	Soil EPC	mg/kg			· · · · · · · · · · · · · · · · · · ·
Contact of Soil	BW	Body Weight	kg	70	Default value for adult.	USEPA, 2002.
	SA	Skin Contact Surface Area	cm ²	5,700	Default value for adult.	USEPA, 2004.
4.5	AF	Soil/Skin Adherence Factor	mg/cm ² -event	0.07	Default RME for adult.	USEPA, 2004.
	ABS	Dermal Absorption Fraction	unitiess	0.14	Default value for PCB.	USEPA, 2004.
	EV	Event Frequency	events/day	1	Default value for residential receptor.	USEPA, 2004.
	EF	Exposure Frequency	days/yr	350	Default exposure frequency for	USEPA, 2004,
			,-,		residential receptor.	2002.
•	ED	Exposure Duration	vear	24	Default RME exposure duration.	USEPA, 2004.
[CF	Conversion Factor	kg/mg	1E-6		
	AT(Nc)	Averaging Time - Nc	days	8,760	24 years.	
	AT(Cair)	Averaging Time - Car	days	25,550	70 years, default value for human life span.	USEPA, 2002.

Notes:

RME = Reasonable Maximum Exposure

Intake Equations:

Ingestion Dermal

Daily Intake (DI) (mg/kg-day) = EPC x IR x EF x ED x CF x FI / (BW x AT)

DI (mg/kg-day) = EPC x SA x AF x ABS x EV x EF x ED x CF/(BW x AT)

Source References:

- · BPJ: Best Professional Judgement.
- · USEPA, 1997: Exposure Factors Handbook
- · USEPA, 2002: Supplemental Guldance For Developing Soil Screening Levels For Superfund Sites. December.
- · USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual

TABLE J-5A

SOIL EXPOSURE POINT CONCENTRATION SUMMARY - SOIL OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil

Exposure Point: Soil Outside Building Footprint

Chemical	Units	Arithmetic	95% UCL of	Maximum	Q	EPC		Reasonable Maximum Ex	posure (3)
of ·		Mean	Normal	Detected		Units		•	
Potential		(1)	Data	Concentration			Medium	Medium	Medium
Concern	1		(1) (2)	(1)	l l		EPC	EPC	EPC
							Value	Statistic	Rationale
	18 7 a 18 6 a			Surface S	ōji¦(0-2 ft bgs)≱	MINE WILL		建筑线线 医电路
Arocior 1232	mg/kg	ND	ND	ND		mg/kg	ND	Not Detected	Not Detected
Aroclor 1242	mg/kg	ND	ND	ND		mg/kg	ND	Not Detected	Not Detected
	mg/kg	157	398	2800		mg/kg	1394	99% KM (Chebyshev)	Lognormal,
Aroclor 1248		,							extremely skewed
Aroclor 1254	mg/kg	0.046	0.13	1.0		mg/kg	1.0	Maximum Detected	Maximum Detected
Arocior 1260	mg/kg	0.042	0.097	0.59		mg/kg	0.59	Maximum Detected	Maximum Detected
	estimates.			Sürface S	óli (0=6 ft bgs)世		FEET RESIDENCE FEET FOR THE PARTY OF THE PAR	
Aroclor 1232	mg/kg	ND	ND	ND ND		mg/kg	ND	Not Detected	Not Detected
Aroclor 1242	mg/kg	ND	ND	ND		mg/kg	ND	Not Detected	Not Detected
1.1	mg/kg	57	126	2800		mg/kg	277	97.5% KM Chebyshev	Lognormal,
Aroclor 1248									extremely skewed
	mg/kg	0.50	1.1	25		mg/kg	1.1	95% KM (t)	Gamma, highly
Aroclor 1254			<u> </u>		<u> </u>				skewed (k [≤] 1)
Aroclor 1260	mg/kg	0.022	0.038	0.59		mg/kg	0.59	Maximum Detected	Maximum Detected
	100		Surfa	ace and Subst	ırfa	ce Soll (0-15	ft bgs)		
Aroclor 1232	mg/kg	ND	ND	ND	ĺ	. mg/kg	ND	Not Detected	Not Detected
Aroclor 1242	mg/kg	0.029	0.065	3.8		mg/kg	3.8	Maximum Detected	Maximum Detected
	mg/kg	. 41 .	71	2800		mg/kg	137	97.5% KM Chebyshev	Lognormal,
Aroclor 1248									extremely skewed
	mg/kg	0.40	0.78	28		mg/kg	0.77	95% KM (t)	Gamma, highly
Arocior 1254				1		<u> </u>			skewed (k ² 1)
Aroclor 1260	mg/kg	0.016	0.023	0.59		mg/kg	0.59	Maximum Detected	Maximum Detected

Notes

- 1. Field duplicates were averaged and regarded as one sample entry. Nondetectes were assumed to be half reporting limits.
- 2. 95% UCL calculated assuming normal distribution.
- 3. The EPCs were calculated using the ProUCL (Version 4.00.05) and the EPCs were selected in accordance with the ProUCL Version 4.0 User Guide (USEPA, 2007) and the Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites (USEPA, 2002).

EPC - exposure point concentration

extremely skewed - standard deviation of log-transformed data greater than 3.0.

Q - qualifier

ND - not detected

UCL - upper confidence level





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QA: CL Date: 7/15/10

8/31/2010

SOIL EXPOSURE POINT CONCENTRATION SUMMARY SOIL WITHIN BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield. New Jersev 07004 ISRA Case #E20010335

Scenario Timeframe: Current/Future

Soil

Soil

Exposure Medium:

Exposure Point:

Medium:

Soil Within Building Footprint

Chemical	Units	Arithmetic Mean	95% UCL of	l I	Q	EPC		Reasonable Maximum	Exposure (3)
of Potential Concern		(1)	Data (1) (2)	Detected Concentratior (1)	 	Units	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Aroclor 1248	mg/kg	92	Suiffa 164	ce and Subs 2530	urfa	ce Soil (0-il5 mg/kg	/ft/bgs) 321	97.5 KM (Chebyshev)	Lognormal, extremely skewed

Notes:

- 1. Field duplicates were averaged and regarded as one sample entry. Nondetectes were assumed to be half reporting limits.
- 2. 95% UCL calculated assuming normal distribution.
- 3. The EPCs were calculated using the ProUCL (Version 4.00.05) and the EPCs were selected in accordance with the ProUCL Version 4.0 User Guide (USEPA, 2007) and the Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites (USEPA, 2002).

EPC - exposure point concentration extremely skewed - standard deviation of log-transformed data greater than 3.0. Q - qualifier

UCL - upper confidence level

TABLE J-5C

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SOIL EXPOSURE POINT CONCENTRATION SUMMARY SOIL IN UNPAVED PORTION OF EASTERN PARKING LOT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Scenario Timeframe:

Current/Fut

Medium:

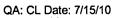
Soil Soil

Exposure Medium: Exposure Point:

Soil In Eastern Parking Lot

Chemical	Units	Arithmetic	Maximum	Q	EPC	Reasonable Maximum Exposure (3)				
of Potential Concern		Mean	Detected Concentration		Units	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale		
					Surface Soll					
Aroclor 1248	mg/kg	10.7	10.7		mg/kg	10.7	WC-Backfill	Backfill Material		

Note:



^{1.} The aroclor level detected in the backfill material (WC-Backfill) was used as the EPC for the surface soil in unpaved eastern parking



GROUNDWATER EXPOSURE POINT CONCENTRATION SUMMARY

File No. 75418.20 Page 4 of 7 8/31/2010

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Scenario Timeframe: Current/Future

Medium: Exposure Medium: Groundwater Groundwater

Exposure Point:

Site

Chemical	Units	Arithmetic			Q	EPC	R	Reasonable Maximum Exposure (3)			
of Potential Concern		Mean (1)	Normal Data (1) (2)	Detected Concentration (1)	ן נ 	Units	Medium EPC	Medium EPC	Medium EPC		
					٠.		Value	Statistic	Rationale		
Aroclor 1242	ug/L	3.7	7.5	14		ug/L	14	Maximum Detected	Maximum Detected		
Aroclor 1248	ug/L	1.1	1.5	1.9		ug/L	1.9	Maximum Detected	Maximum Detected		

Notes:

1. Field duplicates were averaged and regarded as one sample entry.

Nondetectes were assumed to be half reporting limits. Only sample results from wells screened within 20 feet below ground surface were included in the risk assessment. Filtered samples were not included in the risk assessment.

2. 95% UCL calculated assuming normal distribution.

EPC - exposure point concentration

extremely skewed - standard deviation of log-transformed data greater than 3.0.

Q - qualifier

UCL - upper confidence level

TABLE J-5E

AMBIENT AIR EXPOSURE POINT CONCENTRATIONS - FROM SURFACE AND SUBSURFACE SOIL

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Air
Exposure Point: Within Building Footprint and Outside Building Footprint

Equation for Air EPC from Soils (mg/m³) =

CS x PM10 x CF

Variables:

CS = Chemical Concentration in Soils, from EPC data (mg/kg)

PM10 = PM10 Concentration Calculated for Construction Worker= 192 ug/m³

CF = Conversion Factor = 1E-9 kg/ug

	Within Bul	Ilding Footprint	Outside Build	ding Footprint
Analyte	EPC Data for Surface and Subsurface Soil (mg/kg)	Calculated Air EPC Surface and Subsurface Soil (mg/m³)	EPC Data for Surface and Subsurface Soil (mg/kg)	Calculated Air EPC Surface and Subsurface Soil (mg/m³)
Arocior 1232				
Aroclor 1242			3.8	7.3E-07
Aroclor 1248	321	6.2E-05	137	2.6E-05
Aroclor 1254			0.8	1.5E-07
Aroclor 1260			0.59	1.1E-07

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Chemical of Potential	Chronic/ Subchronic		al RfD	Oral Absorption Efficiency for Dermal ⁽¹⁾	Absorbed RfD) for Dermal (2)	Primary Target	RfD:Target Orga	an(s)
Concern		Value	Units	•	Value	Units	Organ(s)	Source(s)	Date(s) (3) (MM/DD/YYYY)
Polychlorinated Biphenyls (4)									
Aroclor 1232	Chronic	2E-05	mg/kg-day	1	2E-05	mg/kg-day	Immunological	IRIS	11/1/1996
Aroclor 1232	Subchronic	2E-05	mg/kg-day	1	2E-05	mg/kg-day	Immunological	IRIS (chronic, unadjusted)	11/1/1996
Aroclor 1242	Chronic	2E-05	mg/kg-day	1 1	2E-05	mg/kg-day	Immunological	RIS	11/1/1996
Aroclor 1242	Subchronic	2E-05	mg/kg-day	1 1	2E-05	mg/kg-day	Immunological	IRIS (chronic, unadjusted)	11/1/1996
Aroclor 1248	Chronic	2E-05	mg/kg-day	1	2E-05	mg/kg-day	Immunological	IRIS	11/1/1996
Aroclor 1248	Subchronic	2E-05	mg/kg-day	1	2E-05	mg/kg-day	Immunological	IRIS (chronic, unadjusted)	11/1/1996
Aroclor-1254	Chronic	2E-05	mg/kg-day	1	2E-05	mg/kg-day	Immunological	IRIS	11/1/1996
Aroclor 1254	Subchronic	2E-05	mg/kg-day	.*1	2E-05	mg/kg-day	Immunological	IRIS (chronic, unadjusted)	11/1/1996
Aroclor-1260	Chronic	2E-05	mg/kg-day	1	2E-05	mg/kg-day	Immunological	IRIS	11/1/1996
Aroclor 1260	Subchronic	2E-05	mg/kg-day	1	2E-05	mg/kg-day	Immunological	IRIS(chronic, unadjusted)	11/1/1996

Notes

- (1) The source of the "Oral Absorption Efficiency for Dermal" is Exhibit 4.1 in RAGS Part E, Supplemental Guidance for Dermal Risk Assessment. EPA/540/R/99/005. EPA, 2004.
- (2) The derivation of the absorbed RfDs for dermal exposure is explained in the Toxicity Assessment section of the text.
- (3) Dates indicate the last time the toxicity value was updated. IRIS was searched in July, 2010.
- (4) RfD value for Aroclor-1254 was used for the other aroclors.

IRIS = Integrated Risk Information System

TABLE J-6B NON-CANCER TOXICITY DATA INHALATION Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Chemical of Potential	Chronic/ Subchronic	nic (mg/m3)		Primary Target	RfC : Target	Organ(s)
Concern		Value	Únits	Organ(s)	Source(s)	Date(s) (1) (MM/DD/YYYY)
Polychlorinated Biphenyls						
Aroclor 1232	Chronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor 1232	Subchronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor 1242	Chronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor 1242	Subchronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor 1248	Chronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor 1248	Subchronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor-1254	Chronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor 1254	Subchronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor-1260	Chronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996
Aroclor 1260	Subchronic	7.0E-05	mg/m3	Immunological	RfD converted to RfC	11/1/1996

Notes:

(1) Dates indicate the last time the toxicity value was updated. IRIS was searched in July, 2010. NA = Not Available

QA: CL Date: 10/11/10

ISRA Case #E20010335



Chemical of Potential	Oral Cance	Slope Factor	Oral Absorption Efficiency for Dermal ⁽¹⁾			Weight of Evidence/ Cancer Guideline	Oral CSF	
Concern	Value	Units		Value	Units	Description	Source(s)	Date(s) ⁽³⁾ (MM/DD/YYYY)
Polychlorinated Biphenyis Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor-1254 Aroclor-1260	2.0E+00	1/(mg/kg-day) 1/(mg/kg-day) 1/(mg/kg-day) 1/(mg/kg-day) 1/(mg/kg-day)	1 1 1	2.0E+00 2.0E+00 2.0E+00 2.0E+00 2.0E+00	1/(mg/kg-day) 1/(mg/kg-day) 1/(mg/kg-day) 1/(mg/kg-day) 1/(mg/kg-day)	B2 B2 B2	IRIS (PCBs); High risk and persistence; Upper-bound IRIS (PCBs); High risk and persistence; Upper-bound IRIS (PCBs); High risk and persistence; Upper-bound IRIS (PCBs); High risk and persistence; Upper-bound IRIS (PCBs): High risk and persistence; Upper-bound	6/1/1997 6/1/1997 6/1/1997 6/1/1997 6/1/1997

Notes:

⁽¹⁾ The source of the "Oral Absorption Efficiency for Dermal" is Exhibit 4.1 in RAGS Part E, Supplemental Guidance for Dermal Risk Assessment. EPA/540/R/99/005. EPA, 2004.

⁽²⁾ The derivation of the absorbed RfDs for dermal exposure is explained in the Toxicity Assessment section of the text.

⁽³⁾ Dates indicate the last time the toxicity value was updated. IRIS was searched in July, 2010.

NA = Not Available

IRIS = Integrated Risk Information System

TABLE J-7B CANCER TOXICITY DATA INHALATION

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 1 of 1 8/31/2010

Chemical of Potential	Unit	Risk	Un	it Risk	Weight of Evidence/ Cancer Guideline	Unit Risk : Inhalation CSF	
Concern	Value	Units	Value	Units	Description	Source(s)	Date(s) ⁽¹⁾ (MM/DD/YYYY)
Polychlorinated Biphenyls							
Aroclor 1232	5.7E-04	1/(ug/m3)	2.0E+00	1/(mg/kg-day)	B2	IRIS (PCBs); High risk and persistence; Upper-bound CSF converted to a unit risk	6/1/1997
Aroclor 1242	5.7E-04	1/(ug/m3)	2.0E+00	1/(mg/kg-day)	B2	IRIS (PCBs); High risk and persistence; Upper-bound CSF converted to a unit risk	6/1/1997
Aroclor 1248	5.7E-04	1/(ug/m3)	2.0E+00	1/(mg/kg-day)	B2	IRIS (PCBs); High risk and persistence; Upper-bound CSF converted to a unit risk	6/1/1997
Aroclor-1254	5.7E-04	1/(ug/m3)	2.0E+00	1/(mg/kg-day)	82	IRIS (PCBs); High risk and persistence; Upper-bound CSF converted to a unit risk	6/1/1997
Aroclor-1260	5.7E-04	1/(ug/m3)	2.0E+00	1/(mg/kg-day)	1	IRIS (PCBs); High risk and persistence; Upper-bound CSF converted to a unit risk	6/1/1997

Notes:

⁽¹⁾ Dates indicate the last time the toxicity value was updated. IRIS was searched in July, 2010.



TABLE J-8A

CALCULATION OF TOTAL NONCARCINOGENIC AND CARCINOGENIC RISKS UNDER CURRENT USE SCENARIO REASONABLE MAXIMUM EXPOSURE (RME)

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 1 of 1 10/11/2010

			Within Buildin				Soil Outside Buil		
RECEPTOR	EXPOSURE ROUTE		ARD DEX		NCER ISK	HAZ			NCER ISK
		Hazard Index	% Contribution	Cancer Risk	% Contribution	Hazard Index	% Contribution	CA R	% Contribution
FACILITY WORKER	Ingestion of Soil	Evnosure Dat	hway Not Complet	a Lindar Current	lica Secucia	0.5	52%	7.E-06	52%
	Dermal Contact to Soil		oil Beneath Buildir			0.5	48%	7.E-06	48%
	TOTAL RECEPTOR RISK (Nc & Car)					1	100%	Cancer Risk 7.E-06 7.E-06 1.E-05 2E-07 ete Under Currencted According to lan. I and Groundwate 2E-07 9E-05 2E-04 1E-07 4E-08	100%
CONSTRUCTION WORKER	Inhalation of Dust in Ambient Air					0.3	100%	2E-07	100%
	Ingestion of Soil Dermal Contact to Soil		hway Not Complet ction Work Being (
•	Dermai Contact to Soil	No Constru	ction work being t	conducted bene-	ith building.		Plar	n.	·.
	Dermal Contact to Groundwater		A Comment			No Direct	Contact with Soil a	nd Groundwater	Expected.
	TOTAL RECEPTOR RISK (Nc & Car)	· · · · · · · · · · · · · · · · · · ·				0.3	100%	2E-07	100%
CHILD TRESPASSER	Ingestion of Soil	Exposure Pat	hway Not Complet	e Under Current	Use Scenario.	13	36%	9E-05	36%
	Dermal Contact to Soil		oil Beneath Buildir			24	64%	2E-04	64%
	TOTAL RECEPTOR RISK (Nc & Car)			والمناسبين والمعادر		37	100%	3E-04	100%
	TOTAL RECEPTOR KISK (NC & Car)								
EMERGENCY/UTILITY WORKER	Ingestion of Soil	0.2	68%	1E-07	17%	0.2	67%	1E-07	16%
EMERGENCY/UTILITY WORKER		0.2 0.09	68% 28%	1E-07 5E-08	17% 7%	0.2 0.08	67% 28%		16% 7%
EMERGENCY/UTILITY WORKER	Ingestion of Soil							4E-08	

NQ= Not Quantified due to lack of toxicity data; NA = Not available; NC = Not a complete exposure pathway

TABLE J-8B

CALCULATION OF TOTAL NONCARCINOGENIC AND CARCINOGENIC RISKS UNDER FUTURE USE SCENARIO UNDER FUTURE USE SCENARIO REASONABLE MAXIMUM EXPOSURE (RME)

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

			Within Buildi				Outside Build		
RECEPTOR	EXPOSURE ROUTE		ARD		ICER SK	HAZ IND			NCER ISK
RECEI TOR	·	Hazard Index	% Contribution	Cancer Risk	% Contribution	Hazard Index	% Contribution	Cancer Risk	% Contribution
FACILITY WORKER	Ingestion of Soil	16	52%	2E-04	52%	68	52%	1E-03	52%
	Dermal Contact to Soil	15	48%	2E-04	48%	63	48%	9E-04	· 48%
	TOTAL RECEPTOR RISK (Nc & Car)	30	100%	4E-04	100%	<u>131</u>	100%	<u>2E-03</u>	100%
CONSTRUCTION WORKER	Inhalation of Dust in Ambient Air	0.6	1%	3E-07	1%	0.3	1%	2E-07	1%
	Ingestion of Soil	52	69%	3E-05	69%	23	- 67%	1E-05	67%
	Dermal Contact to Soil	22	29%	1E-05	29%	10	28%	6E-06	28%
•	Dermal Contact to Groundwater	1 .	2%	7E-07	2%	1	4%	7E-07	4%
<u> </u>	TOTAL RECEPTOR RISK (Nc & Car)	<u>75</u>	100%	4E-05	100%	34	100%	<u>2E-05</u>	100%
CHILD TRESPASSER	Ingestion of Soil	3 .	36%	2E-05	36%	13	36%	9E-05	36%
	Dermal Contact to Soll	5	64%	4E-05	64%	24	64%	2E-04	64%
·	TOTAL RECEPTOR RISK (Nc & Car)	8	100%	6E-05	100%	<u>37</u>	100%	3E-04	100%
EMERGENCY/UTILITY WORKER	Ingestion of Soil	0.2	68%	1E-07	17%	0.2	67%	1E-07	16%
•	Dermal Contact to Soil	0.09	28%	5E-08	7%	0.08	28%	4E-08	7%
	Dermal Contact to Groundwater	0.01	4%	5E-07	75%	0.01	5%	5E-07	78%
	TOTAL RECEPTOR RISK (Nc & Car)	0.3	100%	7E-07	100%	0.3	100%	<u>7E-07</u>	100%

NQ= Not Quantified due to lack of toxicity data.



TABLE J-8B (cont'd)

File No. 75418.20 Page 2 of 2 10/11/2010

CALCULATION OF TOTAL NONCARCINOGENIC AND CARCINOGENIC RISKS UNDER FUTURE USE SCENARIO UNDER FUTURE USE SCENARIO

REASONABLE MAXIMUM EXPOSURE (RME)
Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

			Within Buildir	ng Footprint			Outside Build	ling Footprint	
			ARD		ICER	HAZ			NCER
RECEPTOR	EXPOSURE ROUTE		INDEX		SK	IND		R Cancer Risk	ISK % Contribution
		Hazard Index	% Contribution	Cancer Risk	% Contribution	Hazard Index	% Contribution	Cancer Risk	% Contribution
RESIDENT (ADULT)	Ingestion of Soil	22	64%	3E-04	64%	95	64%	1E-03	64%
•	Dermal Contact to Soil	12	36%	2E-04	36%	53	36%	7E-04	36%
	TOTAL RECEPTOR RISK (Nc & Car)	<u>34</u>	100%	<u>5E-04</u>	100%	<u>149</u>	100%	2E-03	100%
RESIDENT (CHILD)	Ingestion of Soil	205	72%	7E-04	72%	891	72%	3E-03	72%
•	Dermal Contact to Soil	80	28%	3E-04	28%	349	28%	1E-03	28%
	TOTAL RECEPTOR RISK (Nc & Car)	<u>286</u>	100%	<u>1E-03</u>	100%	1240	100%	<u>4E-03</u>	100%
RESIDENT (TOTAL)	Ingestion of Soil	•		1E-03	69%			4E-03	69%
₩	Dermal Contact to Soil		. 1 .w	4E-04	31%	• • • •		2E-03	31%
*	TOTAL RECEPTOR RISK (Nc & Car)			1E-03	100%			<u>6E-03</u>	100%

NQ= Not Quantified due to lack of toxicity data.

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 1 of 40 10/11/2010

Sample ID	PE-1	PE-3	PE-4	TPE-1	EW-2	PE-5	PE-6	PE-7	PE-8
Date Collected	11/29/01	11/29/01	11/29/01	12/6/01	12/6/01	12/6/01	12/6/01	12/6/01	12/10/01
Depth Collected (ft bgs)	4.0-4.5	4.0-4.5	4.0-4.5	9.0-9.5	4.0-4.5	13.0-13.5	13.0-13.5	13.0 - 13.5	15.0-15.5
PCB (mg/Kg)									
Aroclor 1232	<.022	<.021	<.020	<.024	<.019	<.021	<.023	<.020	<.021
Arocior 1242	<.022	<.021	<.020	<.024	<.019	<.021	<.023	<.020	<.021
Aroclor 1248	0.66	1.3	0.08	<.024	<.019	<.021	<.023	<.020	<.021
Aroclor 1254	0.07	0.275	<.020	< .024	<.019	<.021	< .023	<.020	<.021
Aroclor 1260	<.022	<.021	<.020	<.024	<.019	<.021	<.023	<.020	<.021

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



File No. 75418.20

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 Page 2 of 40 10/11/2010

Sample ID	PE-9	PE-10	PE-16	PE-18 _.	SB-25	SB-26	SB-27	SB-28	SB-29
Date Collected	12/10/01	12/10/01	12/21/01	12/21/01	4/19/2002	4/19/2002	4/19/2002	4/19/2002	4/19/2002
Depth Collected (ft bgs)	15.0-15.5	15.0-15.5	16.0-16.5	15.0-15.5	6.0-6.5	7.0-7.5	6.0-6.5	6.0-6.5	10.0-10.5
PCB (mg/Kg)									
Aroclor 1232	<.021	<.020	<.020	<.020	<.020	<.019	<.020	<.020	<.018
Aroclor 1242	<.021	<.020	<.020	<.020	<.020	<.019	<.020	<.020	<.018
Aroclor 1248	<.021	· <.020	2	13.4	0.06	0.92	20.8	0.46	3.2
Aroclor 1254	<.021	<.020	0.8	2.6	<.020	<.019	<.020	<.020	<.018
Aroclor 1260	<.021	<.020	0.15	0.7	<.020	<.019	<.020	<.020	<.018

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 3 of 40 10/11/2010

Sample ID	SB-43	SB-52a	SB-53a	SB-54a	SB-55a	SB-56a	SB-58	RI-PE-1	RI-PE-3
Date Collected	4/19/2002	6/17/2002	6/17/2002	6/18/2002	6/18/2002	6/17/2002	6/18/2002	10/28/03	10/28/03
Depth Collected (ft bgs)	19.0-19.5	15.0-15.5	15.0-15.5	15.0-15.5	25.0-25.5	25.0-25.5	19.5-20.0	5.0 to 5.5	7.5 to 8.0
PCB (mg/Kg)				,	,		,		
Aroclor 1232	<.020	<.021	<.019	<.018	<.018	<.018	<.023	<.038	<.037
Aroclor 1242	<.020	<.021	<.019	<.018	<.018	<.018	<.023	<.038	<.037
Aroclor 1248	3.3	<.021	<.019	0.02	0.20	1.70	. <.023	0.24	0.05
Aroclor 1254	<.020	<.021	<.019	<.018	0.03	0.20	<.023	0.05	<.037
Aroclor 1260	<.020	<.021	<.019	<.018	<.018	<.018	<.023	<.038	<.037

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SPE-5	SPE-6	SPE-7	SPE-8	SPE-9	SPE-14	SPE-15	SPE-16	SPE-17
Date Collected	10/28/03	10/30/03	10/30/03	10/30/03	10/30/03	10/30/03	10/31/03	10/31/03	10/31/03
Depth Collected (ft bgs)	6.5 to 7.0	6.5 to 7.0	6.5 to 7.0	10.0 to 10.5	18.5 to 19.0	7.5 to 8.0	16.5 to 17.0	16.5 to 17.0	19.0 to 19.5
PCB (mg/Kg)						. ,			
Aroclor 1232	<.037	<.039	<.038	<.039	<.039	<.041	<.019	<.039	<.383
Aroclor 1242	<.037	<.039	<.038	<.039	<.039	<.041	<.019	<.039	<.383
Aroclor 1248	0.07	0.18	0.04	5.38	0.05	0.75	1.65	0.08	2.03
Aroclor 1254	<.037	<.039	<.038	.0.76	<.039	0.11	0.14	<.039	0.19
Aroclor 1260	<.037	<.039	<.038	<.039	<.039	<.041	<.019	<.039	<.383

Notes:

mg/Kg = milligrams per kilogram

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Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SPE-18	SPE-19	SPE-20	SPE-21	SPE-23	SPE-27	SPE-28	SPE-29	SPE-30
Date Collected	10/31/03	10/31/03	10/31/03	11/3/03	11/3/03	11/4/03	11/4/03	11/4/03	11/4/03
Depth Collected (ft bgs)	22.5 to 23.0	20.0 to 20.5	20.0 to 20.5	15.5 to 16.0	22.5 to 23.0	20.0 to 20.5	20.0 to 20.5	15.5 to 16.0	15.5 to 16.0
PCB (mg/Kg)									
Aroclor 1232	<.019	<.040	<.20	<.395	<.381	<.377	<.791	<.368	<.372
Aroclor 1242	<.019	<.040	<.20	< 395	<.381	<.377	<.791	<.368	<.372
Aroclor 1248	0.78	0.27	0.70	3.04	261	53.5	70.9	0.64	0.28
Aroclor 1254	0.08	0.03	0.15	0.34	30	1.93	3.54	<.368	· · · <.372
Aroclor 1260	<.019	<.040	<.20	<.395	<.381	<.377	<.791	<.368	<.372

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 6 of 40 10/11/2010

Sample ID	SPE-31	SPE-32	SPE-33	SPE-34	SPE-36	SPE-37	SPE-38	SPE-42	SPE-43
Date Collected	11/6/03	11/6/03	11/6/03	11/7/03	11/7/03	11/7/03	11/11/03	11/11/03	11/11/03
Depth Collected (ft bgs)	3.5 to 4.0	3.5 to 4.0	10.0 to 10.5	9.0 to 9.5	3.5 to 4.0	3.5 to 4.0	9.0 to 9.5	9.0 to 9.5	9.0 to 9.5
PCB (mg/Kg)							,		
Aroclor 1232	<.039	<.040	<.039	<.038	<.379	<.388	<0.394	<.388	<0.394
Aroclor 1242	<.039	<.040	<.039	<.038	<.379	<.388	< 0.394	<.388	<0.394
Aroclor 1248	20.9	0.17	27.7	2.23	34.7	43.2	10.4	127	11.5
Aroclor 1254	5.72	0.09	5.97	0.92	8.78	24.9	2.64	28.4	2.45
Aroclor 1260	<.039	<.040	<.039	<.038	<.379	<.388	<0.394	<.388	<0.394

Notes:

mg/Kg = milligrams per kilogram

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Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 7 of 40 10/11/2010

Sample ID	SPE-44	SPE-45	SPE-46	ST-1	ST-2	ST-3	ST-4	ST-5	ST-6
Date Collected	11/12/03	11/12/03	11/12/03	5/9/2003	5/9/2003	5/9/2003	5/9/2003	5/9/2003	5/9/2003
Depth Collected (ft bgs)	22.0 to 22.5	19.5 to 20.0	19.5 to 20.0	11.5-12.0	9.5-10.0	9.5-10.0	9.5-10.0	2.5-3.0	7.5-8.0
PCB (mg/Kg)									
Aroclor 1232	<0.384	<0.381	<0.385	<.018	<.019	<.018	<.019	<.019	<.020
Aroclor 1242	<0.384	<0.381	<0.385	<.018	<.019	<.018	<.019	<.019	<.020
Aroclor 1248	12.1	3.67	32.6	<.018	<.019	<.018	<.019	<.019	<.020
Aroclor 1254	2.23	0.84	7.07	<.018	<.019	<.018	<.019	<.019	<.020
Aroclor 1260	<0.384	<0.381	<0.385	<.018	<.019	<.018	<.019	<.019	<.020

Notes:

mg/Kg = milligrams per kilogram

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Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 8 of 40 10/11/2010

Sample ID	ST-7	ST-8	ST-9	ST-10	AST-1C (9.5- 10)	AST-2B (9.5- 10.0)	AST-3C (10- 10.5)	PE-1A (10- 10.5)	PE-13A (20- 20.5)
Date Collected	5/9/2003	5/9/2003	5/9/2003	5/9/2003	6/2/03	6/12/03	6/10/2003	6/2/03	5/8/03
Depth Collected (ft bgs)	11.5-12.0	11.5-12.0	11.5-12.0	2.5-3.0	9.5 - 10.0	9.5 - 10.0	10.0 - 10.5	10.0 - 10.5	20.0-20.5
PCB (mg/Kg)									
Aroclor 1232	<.019	<.020	<.020	<.019	<.018	<.020	<.018	<.022	<.019
Aroclor 1242	<.019	<.020	<.020	<.019	<.018	<.020	<.018	<.022	<.019
Aroclor 1248	<.019	<.020	<.020	<.019	1.7	14.8	<.018	0.25	0.06
Aroclor 1254	<.019	<.020	<.020	<.019	<.018	<.020	<.018	<.022	<.019
Aroclor 1260	<.019	< .020	<.020	<.019	<.018	<.020	<.018	<.022	<.019

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Sample ID	PE-13A (24.5- 25)	PE-16A (20- 20.5)	PE-16A (24.5- 25)	PE-17A (20- 20.5)	PE-17A (24.5- 25)	PE-18A (20- 20.5)	PE-18A (24.5- 25)	SB-27A	SB-27A
Date Collected	5/8/03	5/8/03	5/8/03	5/8/03	5/8/03	5/8/03	5/8/03	5/8/03	5/8/03
Depth Collected (ft bgs)	24.5-25.0	20.0-20.5	24.5-25.0	20.0-20.5	24.5-25.0	20.0-20.5	24.5-25.0	10.0-10.5	14.5-15.0
PCB (mg/Kg)									
Aroclor 1232	<.019	<.020	<.018	<.018	<.017	<.020	<.019	<.020	<.020
Aroclor 1242	<.019	<.020	<.018	<.018	<.017	<.020	<.019	<.020	<.020
Aroclor 1248	0.14	0.07	0.64	0.16	<.017	1.53	1.24	20	14.2
Aroclor 1254	<.019	<.020	<.018	<.018	<.017	<.020	<.019	<.020	<.020
Aroclor 1260	<.019	<.020	<.018	<.018	<.017	<.020	<.019	<.020	<.020

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

bgs = Below Ground Surface



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SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 10 of 40 10/11/2010

Sample ID	SB-27B	SB-41A (23.5- 24)	SB-53A (6- 6.5)	SB-54A (12.5- 13)	SB-66 (9.5- 10)	SB-66 (14.5- 15)	SB-67 (9.5- 10)	SB-67 (14.5- 15)	SB-68 (9.5- 10)
Date Collected	6/12/03	7/15/03	6/2/03	7/29/03	6/12/03	6/12/03	6/12/03	6/12/03	6/12/03
Depth Collected (ft bgs)	19.5 - 20.0	23.5 - 24.0	6.0 - 6.5	12.5 - 13.0	9.5 - 10.0	14.5 - 15.0	9.5 - 10.0	14.5 - 15.0	9.5 - 10.0
PCB (mg/Kg)									
Aroclor 1232	<.018	<.020	<.019	<.021	<.020	<.018	<.019	<.019	<.020
Aroclor 1242	<.018	<.020	<.019	<.021	<.020	<.018	<.019	<.019	<.020
Arocior 1248	<.018	<.020	0.17	3.85	<.020	<.018	<.019	<.019	83.3
Aroclor 1254	<.018	1.35	<.019	<.021	<.020	<.018	<.019	<.019	<.020
Aroclor 1260	<.018	<.020	<.019	<.021	<.020	<.018	<.019	<.019	<.020

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

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Sample ID	SB-68 (14.5- 15)	SB-69 (2.5-3)	SB-69 (7.5-8)	SB-71 (7.5-8)	SB-73 (5-5.5)	SB-74 (2.5-3)	SB-74 (7.5-8)	SB-75 (3-3.5)	SB-75 (9-9.5)
Date Collected	6/12/03	6/12/03	6/12/03	6/12/03	6/4/2003	7/15/2003	7/15/2003	7/15/2003	7/15/2003
Depth Collected (ft bgs)	14.5 - 15.0	2.5 - 3.0	7.5 - 8.0	7.5 - 8.0	5.0 - 5.5	2.5 - 3.0	7.5 - 8.0	3.0 - 3.5	8.0 - 8.5
PCB (mg/Kg)									
Aroclor 1232	<.019	<.020	<.020	<.019	<.020	<.020	<.020	<.019	<.020
Aroclor 1242	<.019	<.020	<.020	<.019	<.020	<.020	<.020	<.019	<.020
Aroclor 1248	0.03	40.7	6	0.07	0.08	<.020	<.020	17.6	0.2
Aroclor 1254	<.019	<.020	<.020	<.019	<.020	<.020	<.020	·· <.019	<.020
Aroclor 1260	<.019	<.020	<.020	<.019	<.020	<.020	<.020	<.019	<.020

Notes:

mg/Kg = milligrams per kilogram

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Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 12 of 40 10/11/2010

Sample ID	SB-76A (23.5- 24)	SB-78A (12.5- 13)	SB-79 (4-4.5)	SB-79 (10- 10.5)	SB-80 (3-3.5)	SB-80 (8-8.5)	SB-81 (3-3.5)	SB-81 (8-8.5)	SB-81A (13- 13.5)
Date Collected	8/26/2003	7/29/2003	7/16/2003	7/16/2003	7/29/2003	7/29/2003	7/29/2003	7/29/2003	8/26/2003
Depth Collected (ft bgs)	23.5 - 24.0	12.5 - 13.0	4.0 - 4.5	10.0 - 10.5	3.0 - 3.5	8.0 - 8.5	3.0 - 3.5	8.0 - 8.5	13.0 - 13.5
PCB (mg/Kg)									
Aroclor 1232	<.041	<.017	<.022	<.022	<.019	<.019	<.018	<.020	<.041
Aroclor 1242	<.041	<.017	<.022	<.022	<.019	<.019	<.018	<.020	<.041
Aroclor 1248	0.35	2.8	0.24	0.08	0.95	0.06	50.5	56.8	0.40
Aroclor 1254	<.041	<.017	<.022	<.022	<.019	<.019	<.018	<.020	<.041
Aroclor 1260	<.041	<.017	<.022	<.022	<.019	<.019	<.018	<.020	<.041

Notes:

mg/Kg = milligrams per kilogram

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Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-81A (23.5- 24)	SB-82·(23.5- 24)	SB-83 (11.5- 12)	SB-83 (16.5- 17)	SB-83 (23.5- 24)	SB-83A (28.5- 29)	SB-83A (32- 32.5)	SB-84 (8-8.5)	SB-84 (11.5- 12)
Date Collected	8/26/2003	7/29/2003	7/29/2003	7/29/2003	7/29/2003	8/26/2003	8/26/2003	8/26/2003	7/29/2003
Depth Collected (ft bgs)	23.5 - 24.0	23.5 - 24.0	11.5 - 12.0	16.5 - 17.0	23.5 - 24.0	28.5 - 29.0	32.0 - 32.5	8.0 - 8.5	11.5 - 12.0
PCB (mg/Kg)									
Aroclor 1232	<.041	<.020	<.019	<.021	<.023	<.038	<.039	<.038	<.020
Aroclor 1242	<.041	<.020	<.019	<.021	<.023	<.038	<.039	<.038	<.020
Aroclor 1248	0.13	38.6	1.76	0.83	119	1.46	25.6	28.39	0.28
Aroclor 1254	<.041	<.020	<.019	<.021	<.023	<.038	<.039	<.038	<.020
Aroclor 1260	<.041	<.020	<.019	<.021	<.023	<.038	<.039	<.038	<.020

Notes:

mg/Kg = milligrams per kilogram

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Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-84A (16.5- 17)	SB-84A (23.5- 24)	SB-84A (28.5- 29)	SB-84A (32- 32.5)	SB-85 (3-3.5)	SB-85 (23.5- 24)	SB-85 (28.5- 29)	SB-86 (23.5- 24)	SB-86 (28.5- 29)
Date Collected	7/29/2003	7/29/2003	8/26/2003	8/26/2003	8/27/2003	8/27/2003	8/27/2003	8/27/2003	8/27/2003
Depth Collected (ft bgs)	16.5 - 17.0	23.5 - 24.0	28.5 - 29.0	32.0 - 32.5	3.0 - 3.5	23.5 - 24.0	28.5 - 29.0	23.5 - 24.0	28.5 - 29.0
PCB (mg/Kg)									
Aroclor 1232	<.020	<.020	<.040	<.038	<.037	<.041	<.039	<.044	<.036
Aroclor 1242	<.020	<.020	<.040	<.038	<.037	<.041	<.039	<.044	<.036
Aroclor 1248	1.58	161	233.57	26.88	2.47	17.02	8.86	3.02	89.21
Aroclor 1254	<.020	<.020	<.040	<.038	<.037	<.041	<.039	<.044	<.036
Arocior 1260	<.020	<.020	<.040	<.038	<.037	<.041	<.039	<.044	<.036

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 15 of 40 10/11/2010

Sample ID	SB-86A (33.5- 34)	SB-86A (38.5- 39)	SB-87 (23.5- 24)	SB-87 (28.5- 29)	SB-88 (3-3.5)	SB-88 (8-8.5)	SB-89 (23.5- 24)	SB-89 (28.5 29)	SB-91 (3-3.5)
Date Collected	9/25/2003	9/25/2003	8/27/2003	8/27/2003	8/26/2003	8/26/2003	9/25/2003	9/25/2003	9/25/2003
Depth Collected (ft bgs)	33.5 - 34.0	38.5 - 39.0	23.5 - 24.0	28.5 - 29.0	3.0 - 3.5	8.0 - 8.5	23.5 - 24.0	28.5 - 29.0	3.0 - 3.5
PCB (mg/Kg)				t.					
Aroclor 1232	<.041	<.038	<.040	<.038	<.037	<.042	<.038	<.037	<.037
Aroclor 1242	<.041	<.038	<.040	<.038	<.037	<.042	<.038	<.037	<.037
Aroclor 1248	62.72	2.78	1.48	3.56	1.78	<.042	3.75	9.7	0.03
Aroclor 1254	<.041	<.038	<.040	<.038	<.037	<.042	<.038	<.037	<.037
Aroclor 1260	<.041	<.038	<.040	<.038	<.037	<.042	<.038	<.037	<.037

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



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SOIL ANALYTICAL RESULTS-OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-92 (3-3.5)	SB-93 (3-3.5)	SB-94 (28.5- 29)	SB-94 (33.5- 34)	SB-94 (38.5- 39)
Date Collected	9/25/2003	9/25/2003	9/25/2003	9/25/2003	9/25/2003
Depth Collected (ft bgs)	3.0 - 3.5	3.0 - 3.5	28.5 - 29.0	33.5 - 34.0	38.5 - 39.0
PCB (mg/Kg)			•		
Aroclor 1232	<.038	<.036	<.040	<.040	<.039
Aroclor 1242	<.038	<.036	<.040	<.040	<.039
Aroclor 1248	2.25	0.86	1.29	0.04	0.15
Aroclor 1254	<.038	<.036	<.040	<.040	<.039
Aroclor 1260	<.038	<.036	<.040	<.040	<.039

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Only detected aroclors are listed.

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane

Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-99-2	SB-100-2	SB-101-2	SB-102-2	SB-94A- 29	SB-98-3	SB-98-24	SB-98-29	SB-95-3	SB-96-3	SB-97-3
Date Collected	10/14/09	10/14/09	10/14/09	10/14/09	10/14/09	10/14/09	10/14/09	10/14/09	10/14/09	10/14/09	10/14/09
Depth Collected (ft bgs)	2.0-2.5	2.0-2.5	2.0-2.5	2.0-2.5	28.5-29.0	3.0-3.5	23.5-24.0	28.5-29.0	3.0-3.5	3.0-3.5	3.0-3.5
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.012	<.012	<.013	<.012	<.013	< .013	<.012	<.012	<.013
Aroclor 1242	<.005	<.005	<.005	<.005	<.006	<.006	<.006	<.006	<.006	<.005	<.006
Aroclor 1248	5.02	7.91	6.51	0.93	0.72	445	1.22	5.77	7.19	19.8	22.6
Aroclor 1254	<.008	<.008	<.008	<.008	<.009	<.009	<.009	<.009	<.009	<.008	<.009
Aroclor 1260	<.008	<.008	<.008	<.008	<.009	<.008	<.009	<.009	<.008	<.008	<.009

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

bgs = Below Ground Surface

File No. 75418.20

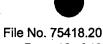
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SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335



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Sample ID	TP-1A-16	SB-95-8C	SB-96-8C	SB-97-8C	SB-111-8	SB-110-8	SB-109- 13	SB-108-8	SPE-8A- 16	AST-2D- 16	PE-3A-8
Date Collected	10/14/09	10/14/09	10/14/09	10/14/09	10/15/09	10/15/09	10/15/09	10/15/09	10/15/09	10/15/09	10/15/09
Depth Collected (ft bgs)	15.5-16.0	7.5-8.0	7.5-8.0	7.5-8.0	7.5-8.0	7.5-8.0	12.5-13.0	7.5-8.0	15.5-16.0	15.5-16.0	7.5-8.0
PCB (mg/Kg)											
Aroclor 1232	<.013	<.012	<.012	<.013	<.012	<.012	<.012	<.012	<.012	<.011	<.012
Aroclor 1242	<.006	<.006	<.006	<.006	<.005	<.005	<.006	<.006	<.006	<.005	<.006
Aroclor 1248	<.004	0.79	10	1.44	114	176	0.91	495	<.004	<.004	64.1
Aroclor 1254	<.009	<.009	<.009	<.009	<.008	<.008	<.009	<.009	<.009	<.008	<.009
Aroclor 1260	<.009	<.008	<.008	<.009	<.008	<.008	<.008	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

File No. 75418.20 Page 19 of 40 10/11/2010

Sample ID	PE-2A-8	SB-29A- 16	PE-3A- 16C	PE-2A- 16C	SPE-42A- 14	SPEL42A- 14D	SPE-42A- 14- (Average)	SPE-42A- 20C	SB-69A- 12	SB-70A- 12	SB-92A-8
Date Collected	10/15/09	10/15/09	10/15/09	10/15/09	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09
Depth Collected (ft bgs)	7.5-8.0	15.5-16.0	15.5-16.0	15.5-16.0	13.5-14.0	13.5-14.0	13.5-14.0	19.5-20.0	11.5-12.0	11.5-12.0	7.5-8.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.014	<.012	<.013	< 013:	- ≪013 ∵	<.012	<.013	<.012	<.012
Aroclor 1242	<.005	<.005	<.006	<.006	>≤.006	< 006	£<006.4	<.005	<.006	<.006	<.006
Aroclor 1248	128	0.34	1.29	2.77	99.7-J	F3248 J#	k 1740	18.9	1	3.63	7.42
Aroclor 1254	<.008	<.008	<.010	<.009		<:009×	<009	<.008	<.009	<.009	<.009
Aroclor 1260	<.008	<.008	<.009	<.008	. < 009	< 009%	.<.009 €	<.008	<.009	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Duplicate Samples for QA/QC Purpose

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 20 of 40 10/11/2010

Sample ID	SB-105- 16	SB-113- 16	SB-70A- 20C	SB-92A- 16C	SB-113- 24C	Pink-1A- 28	SPE-10A- 20	SPE-31A- 12	SPE-33A- 16	SPE-34A- 16	SPE-21A- 20
Date Collected	10/19/09	10/19/09	10/19/09	10/19/09	10/19/09	10/21/09	10/21/09	10/21/09	10/21/09	10/21/09	10/21/09
Depth Collected (ft bgs)	15.5-16.0	15.5-16.0	19.5-20.0	15.5-16.0	23.5-24.0	27.5-28.0	19.5-20.0	11.5-12.0	15.5-16.0	15.5-16.0	19.5-20.0
PCB (mg/Kg)				·							
Aroclor 1232	<.013	<.012	<.012	<.012	<.012	<.012	0.593	<.013	<.013	<.012	0.25
Aroclor 1242	<.006	<.005	<.005	<.006	<.005	<.006	<.006	<.006	<.006	<.005	<.005
Aroclor 1248	<.004	138	1.24	<.004	<.004	216	<.004	<.004	0.24	<.004	<.004
Aroclor 1254	<.009	<.008	<.008	<.009	<.008	<.009	<.009	<.009	<.010	<.008	<.008
Aroclor 1260	<.009	<.008	<.008	<.008	<.008	<.008	<.009	<.009	<.009	· <.008	<.008

Notes:

mg/Kg = milligrams per kilogram

indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

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<.008

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Sample ID	SB-78B- 20	SPE-27A- 26	SPE-28A- 26	SPE-27A- 32C	SPE-28A- 32C	SB-43A- 24	SPE-23A- 28	SB-43A- 32C	SPE-23A- 36C	SB-84B- 38	SB-83B- 36
Date Collected	10/21/09	10/21/09	10/21/09	10/21/09	10/21/09	10/22/09	10/22/09	10/22/09	10/22/09	10/28/09	10/28/09
Depth Collected (ft bgs)	19.5-20.0	25.5-26.0	25.5-26.0	31.5-32.0	31.5-32.0	23.5-24.0	27.5-28.0	31.5-32.0	35.5-36.0	37.5-38.0	35.5-36.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.013	<.012	<.012	<.012	<.011	<.012	<.012	<.012	<.012
Aroclor 1242	<.005	<.005	<.006	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.006
Aroclor 1248	<.004	6.09	321	0.24	60.5	2.73	12.5	4.09	64.4	0.36	2.38
Aroclor 1254	<.008	<.008	<.009	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.009

<.008

<.008

<.008

<.008

<.008

<.008

Notes:

<.008

Aroclor 1254

Aroclor 1260

mg/Kg = milligrams per kilogram

<.008

<.009

< indicates that the analyte was not detected above the listed laboratory reporting limit.

<.008

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

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Sample ID	SB-82A- 36	SB-89A- 38	SB-87A- 36	SB-86B- 36	SB-85A- 36	SB10000°	SB-85A- 36 (Average)	SB-41B- 37	PE-18B- 36	Septic Tank-1	SB-133-2
Date Collected	10/29/09	10/29/09	10/29/09	10/30/09	10/30/09	10/30/09	10/30/09	11/2/09	11/2/09	11/2/09	11/11/09
Depth Collected (ft bgs)	35.5-36.0	37.5-38.0	35.5-36.0	35.5-36.0	35.5-36.0	35.5-36.0	35.5-36.0	35.5-36.0	35.5-36.0	8.0-8.5	1.5-2.0
PCB (mg/Kg)							**				
Aroclor 1232	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.014	<.011
Aroclor 1242	<.005	<.005	<.005	<.005	₹.006	<:006	<.006	<.005	<.006	<.006	<.005
Aroclor 1248	2.93	1.2	<.004	<.004	0,112,J	0.205 J	. 0.159J±	0.53	0.32	<.004	<.004
Aroclor 1254	<.008	<.008	<.008	<.008	<.009	<.009	<:009:	<.008	<.009	<.0096	<.008
Aroclor 1260	<.008	<.008	<.008	<.008	< .008	. <,008 ≥	∹.008	<.008	<.008	<.0092	< .008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.</p>

ND = Not Detected

Duplicate Samples for QA/QC Purpose

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

File No. 75418.20 Page 23 of 40 10/11/2010

QA: CL Date: 10/11/10

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Sample ID	SB-147-2	SB-148-2	SB-149-2	SB-100A- 8	SB-99A-8	SB-101A- 8	SB-135-2	SB-134-2	SB-150-2	SB-118- 16	SB20000
Date Collected	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09
Depth Collected (ft bgs)	1.5-2.0	1.5-2.0	1.5-2.0	7.5-8.0	7.5-8.0	7.5-8.0	1.5-2.0	1.5-2.0	1.5-2.0	15.5-16.0	15.5-16.0
PCB (mg/Kg)											•
Aroclor 1232	<.011	<.011	<.011	<.012	<.012	<.012	<.011	<.011	<.011	<.011	<.011
Aroclor 1242	<.005	<.005	<.005	<.005	<.005	<.006	<.005	<.005	<.005	<.005	<.005
Aroclor 1248	2,800	54.2	0.29	3.6	0.83	0.65	0.066J	4.41	0.57	18.5	26.1
Aroclor 1254	<.008	<.008	<.008	<.008	<.008	<.009	<.008	<.008	<.008	<.008	<.008
Aroclor 1260	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.007	<.007

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Duplicate Samples for QA/QC Purpose

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



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SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-118- 16 (Average)	SB-100A- 16C	SB-134- 8C	SB-147- 4C	SB-148- 4C	SB-118- 24C	SB-119- 16	SB-108-2	SB-109-2	SB-110-2	SB-111-2
Date Collected	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/11/09	11/12/09	11/12/09	11/12/09	11/12/09	11/12/09
Depth Collected (ft bgs)	15.5-16.0	15.5-16.0	7.5-8.0	3.5-4.0	3.5-4.0	23.5-24.0	15.5-16.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0
PCB (mg/Kg)											
Aroclor 1232	<.011	<.012	<.011	<.013	<.011	<.011	<.012	<.011	<.011	<.011	<.011
Aroclor 1242	<.005	<.006	<.005	<.006	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Aroclor 1248	22.3	2.61	4.72	2.41	129	12.8	<.004	42.9	7	625	0.92
Aroclor 1254	<.008	<.009	<.008	<.009	<.008	<.008	<.008	<.008	<.008	<.008	<.008
Aroclor 1260	<.007	<.008	<.008	<.009	<.008	<.008	<.008	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Duplicate Samples for QA/QC Purpose

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-137-3	SB-136-3	SB-126- 16	SB-127- 16	SB-108- 4C	SB-109- 4C	SB-110- 4C	SB-137- 8C	SB-136- 8C	SB-126- 24C	SB-127- 24C
Date Collected	11/12/09	11/12/09	11/12/09	11/12/09	11/12/09	11/12/09	11/12/09	11/12/09	11/12/09	11/12/09	11/12/09
Depth Collected (ft bgs)	2.5-3.0	2.5-3.0	15.5-16.0	15.5-16.0	3.5-4.0	3.5-4.0	3.5-4.0	7.5-8.0	7.5-8.0	23.5-24.0	23.5-24.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.013	<.012	<.011	<.011	<.011	<.012	<.012	<.014	<.014
Aroclor 1242	<.005	<.006	<.006	<.006	<.005	<.005	<.005	<.006	<.006	<.007	<.007
Aroclor 1248	2.34	40.6	22.2	18.9	4.57	0.60	1.38	11.6	133	13.5	60.8
Aroclor 1254	<.008	<.008	<.009	<.009	<.008	<.008	<.008	<.009	<.009	<.010	<.010
Aroclor 1260	<.008	<.008	<.009	<.008_	<.008	<.008	<.008	<.008	<.008	<.010	<.010

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335



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QA: CL Date: 10/11/10

Sample ID	SB-128- 16	SB-131- 12	SB-131- 20	SB-130- 12	SB-130- 20	SB-141-8	SB-3000	SB-141-8	SB-96A- 16	SB-143-3	SB-143- 24
Date Collected	11/13/09	11/13/09	11/13/09	11/13/09	11/13/09	11/13/09	11/13/09	11/13/09	11/13/09	11/13/09	11/13/09
Depth Collected (ft bgs)	15.5-16.0	11.5-12.0	19.5-20.0	11.5-12.0	19.5-20.0	7.5-8.0	7.5-8.0	7.5-8.0	15.5-16.0	2.5-3.0	23.5-24.0
PCB (mg/Kg)			-								
Aroclor 1232	<.012	<.012	<.012	<.012	<.012	<.0.13	<.012	<.012	<.012	<.012	<.012
Aroclor 1242	<.005	<.005	<.005	<.006	<.005	6.29 J	1.32 J	3.81J	<.006	<.005	<.005
Aroclor 1248	7.98	0.64	8.92	9.86	0.10	< .004	<.004	<.004	1.48	1.08	<.004
Aroclor 1254	<.008	<.008	<.008	<.008	<.008	<.009	<.009	<.009	0.88	<.008	<.008
Aroclor 1260	<.008	<.008	<.008	<.008	<.008	<.009	<.008	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Duplicate Samples for QA/QC Purpose

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

File No. 75418.20 Page 27 of 40 10/11/2010

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-128- 24C	SB-131- 28C	SB-141- 16C	SB-96A- 24C	EPA-1-1	EPA-1-3	EPA-1-8	EPA-1-12	EPA-2-1	EPA-2-3	EPA-2-8
Date Collected	11/13/09	11/13/09	11/13/09	11/13/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09
Depth Collected (ft bgs)	23.5-24.0	27.5-28.0	15.5-16.0	23.5-24.0	0.5-1.0	2.5-3.0	7.5-8.0	11.5-12.0	0.5-1.0	2.5-3.0	7.5-8.0
PCB (mg/Kg)			-								
Aroclor 1232	<.012	<.012	<.012	<.012	<.011	<.013	<.013	<.012	<.012	<.012	<.012
Aroclor 1242	<.006	<.006	<.006	<.006	<.005	<.006	<.006	<.006	<.006	<.005	<.005
Aroclor 1248	3.25	14.1	4.51	<.004	0.29	<.004	<.004	0.10	0.88	0.19	<.004
Aroclor 1254	<.009	<.009	<.009	<.009	<.008	<.009	<.009	<.009	<.008	<.008	<.008
Aroclor 1260	<.008	<.008	<.008	<.008	<.008	<.009	<.009	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



File No. 75418.20

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SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Sample ID	EPA-2-12	EPA-3-1	EPA-3-3	EPA-3-8	EPA-3-12	SB-139-3	SB-139-8	SB-138-3	SB-138-8	SB-140-8	SB-146- 14
Date Collected	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09
Depth Collected (ft bgs)	11.5-12.0	0.5-1.0	2.5-3.0	7.5-8.0	11.5-12.0	2.5-3.0	7.5-8.0	2.5-3.0	7.5-8.0	7.5-8.0	13.5-14.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.012
Aroctor 1242	<.006	<.005	<.006	<.006	<.006	<.005	<.006	<.005	<.005	<.006	<.006
Aroclor 1248	0.94	58	93.3	0.51	<.004	7.26	12.5	10.5	5.23	6.25	<.004
Aroclor 1254	<.009	<.008	<.008	<.009	<.009	<.008	<.009	<.008	<.008	<.009	<.009
Aroclor 1260	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

File No. 75418.20 Page 29 of 40 10/11/2010

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-146- 20	SB-139- 16C	SB-138- 16C	SB-140- 16C	SB-146- 28C	SB-145- 24	SB-144- 26	SB-125- 26	SB-42B- 28	PE-2B-24	SB-97A- 16
Date Collected	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/17/09	11/17/09	11/18/09	11/18/09
Depth Collected (ft bgs)	19.5-20.0	15.5-16.0	15.5-16.0	15.5-16.0	27.5-28.0	23.5-24.0	25.5-26.0	25.5-26.0	27.5-28.0	23.5-24.0	15.5-16.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.013	<.013	<.012	<.013	<.012	<.012	<.012	<.012	<.011	<.012
Aroclor 1242	<.005	<.006	<.006	<.006	<.006	<.005	<.005	<.005	<.006	<.005	<.005
Aroclor 1248	14.1	0.18	2.91	<.004	4.56	1.05	0.56	<.004	1.03	<.004	<.004
Aroclor 1254	<.008	<.009	<.009	<.009	<.009	<.008	<.008	<.008	<.009	<.008	<.008
Aroclor 1260	<.008	<.009	<.009	<.008	<.009	<.008	<.008	<.008	<.008	<.008	<.008_

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 30 of 40 10/11/2010

Sample ID	SB-97A- 24	SB-98A-8	SB-142-3	SB-142- 24	SB-124- 26	SB-124- 36C	SPE-28B- 34	SB-145	SB-152	SB-156	SB-155- 37
Date Collected	11/18/09	11/18/09	11/18/09	11/18/09	11/30/09	11/30/09	12/1/09	12/2/09	12/2/09	12/2/09	12/3/09
Depth Collected (ft bgs)	23.5-24.0	7.5-8.0	2.5-3.0	15.5-16.0	25.5-26.0	35.5-36.0	33.5-34.0	35.5-36.0	35.5-36.0	35.5-36.0	36.5-37.0
PCB (mg/Kg)											
Aroclor 1232	<.013	<.012	<.012	<.012	<.013	<.012	<.013	<.012	<.012	<.012	<.012
Aroclor 1242	<.006	<.005	<.005	<.006	<.006	<.008	<.006	<.006	<.005	<.006	<.006
Aroclor 1248	<.004	1.18	7.59	<.004	1.05	3.85	249	0.84	0.60	0.57	5.05
Aroclor 1254	<.009	<.008	<.008	<.009	<.009	<.008	<.009	<.009	<.008	<.008	<.009
Aroclor 1260	<.009	<.008	<.008	<.008	<.009	<.008	<.009	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-153- 32	SB-151- 38	SB-98A- 33	SB-142- 29	SB-120- 28	SB-123- 28	SB-120- 36C	SB-123- 36C	SB-136A- 16	SB-160-2	SB-160-8
Date Collected	12/3/09	12/3/09	12/4/09	12/4/09	12/4/09	12/4/09	12/4/09	12/4/09	12/16/09	12/16/09	12/16/09
Depth Collected (ft bgs)	31.5-32.0	37.5-38.0	32.5-33.0	28.5-29.0	27.5-28.0	27.5-28.0	35.5-36.0	35.5-36.0	15.5-16.0	1.5-2.0	7.5-8.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.013	<.013	<.011	<.012
Aroclor 1242	<.006	<.005	<.005	<.005	<.006	<.005	<.006	<.006	<.006	<.005	<.005
Aroctor 1248	0.47	0.04	<.004	<.004	4.36	12.9	20.6	18.7	<.004	0.51	4.9
Aroclor 1254	<.009	<.008	<.008	<.008	<.009	<.008	<.009	<.009	<.009	<.008	<.008
Aroctor 1260	<.008	<.008	<.008_	<.008	<.008	<.008	<.008	<.009	<.009	<.008	<.008_

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



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SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane

Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-161-2	SB-161-8	SB-157-3	SB-157-8	SB-158-3	SB-158-8	SB-159-3	SB-159-8	SB-162-2	SB-162-8	SB-134- 16
Date Collected	12/16/09	12/16/09	12/16/09	12/16/09	12/16/09	12/16/09	12/16/09	12/16/09	12/16/09	12/16/09	12/16/09
Depth Collected (ft bgs)	1.5-2.0	7.5-8.0	2.5-3.0	7.5-8.0	2.5-3.0	7.5-8.0	2.5-3.0	7.5-8.0	1.5-2.0	7.5-8.0	15.5-16.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.012	<.012	<.012	<.012	<.013	<.012	<.011	<.011	<.013
Aroclor 1242	<.005	<.006	<.006	<.006	<.005	<.005	<.006	<.006	<.005	<.005	<.006
Aroclor 1248	0.18	0.10	0.72	<.004	0.36	0.19	7.91	0.44	<.004	<.004	<.004
Aroclor 1254	<.008	<.009	<.009	<.009	<.008	<.008	<.009	<.009	<.008	<.008	<.009
Aroclor 1260	<.008	<.008	<.008	<.008	<.008	<.008	<.009	<.008	<.008	<.008	<.009

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Page 33 of 40 Unimatic Manufacturing Corp 25 Sherwood Lane

Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-163-8	SB-163- 16	SB-160- 16C	ST-1-10	ST-2-10	PIPE-1-3	PIPE-2-3	PIPE-3-3	PIPE-4-3	SB-168- 16	SB-168- 24
Date Collected	12/16/09	12/16/09	12/16/09	12/17/09	12/17/09	12/17/09	12/17/09	12/17/09	12/17/09	12/17/09	12/17/09
Depth Collected (ft bgs)	7.5-8.0	15.5-16.0	15.5-16.0	9.5-10.0	9.5-10.0	2.5-3.0	2.5-3.0	2.5-3.0	2.5-3.0	15.5-16.0	23.5-24.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.011	<.011	<.012	<.012	<.012	<.012	<.012	<.012	<.012	<.013
Aroclor 1242	<.006	<.006	<.005	<.006	<.006	<.005	<.006	<.006	<.006	<.005	<.006
Aroclor 1248	7.29	<.004	0.28	0.052J	<.004	<.004	<.004	<.004	0.63	<.004	0.88
Aroclor 1254	<.009	<.009	<.008	<.009	<.009	<.008	<.009	<.009	<.009	<.008	<.009
Aroclor 1260	<.008	<.009	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.008	<.009

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

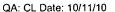
Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

bgs = Below Ground Surface



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SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-164-8	SB-164- 16	SB-166- 20	SB-166- 28	SB-129- 16	SB-167- 15	SB-167- 20	SB-167- 25	SB-167- 28	SB-169- 20	SB-169- 28
Date Collected	12/17/09	12/17/09	12/17/09	12/17/09	12/28/09	12/28/09	12/28/09	12/28/09	12/28/09	12/28/09	12/28/09
Depth Collected (ft bgs)	7.5-8.0	15.5-16.0	19.5-20.0	27.5-28.0	15.5-16.0	14.5-15.0	19.5-20.0	24.5-25.0	27.5-28.0	19.5-20.0	27.5-28.0
PCB (mg/Kg)											
Aroclor 1232	<.013	<.012	<.012	<.012	<.013	<.012	<.012	<.012	<.012	<.012	<.012
Aroclor 1242	<.006	<.006	<.006	<.006	<.006	<.006	<.005	<.006	<.005	<.005	<.006
Aroclor 1248	11.5	<.004	<.004	0.10	0.0653J	0.11	<.004	0.40	0.14	0.38	0.10
Aroclor 1254	<.009	<.009	<.009	<.009	<.009	<.008	<.008	<.009	<.008	<.008	<.008
Aroclor 1260	<.009	<.008	<.008	<.008	<.009	<.008	<.008	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-138A- 24	SB-100B- 24	SB-100B-32C	SB-40000	SB-100B- 32C (Average)	SB-165- 20	SB-165- 28	SB-146A- 35	SB-127A- 32	SB-128A- 32	PE-3B-24
Date Collected	12/28/09	12/28/09	12/28/09	12/28/09	12/28/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/30/09
Depth Collected (ft bgs)	23.5-24.0	23.5-24.0	31.5-32.0	31.5-32.0	31.5-32.0	19.5-20.0	27.5-28.0	34.5-35.0	31.5-32.0	31.5-32.0	23.5-24.0
PCB (mg/Kg)				_							
Aroclor 1232	<.012	<.013	<.013	<.012	<.012	<.013	<.013	<.012	<.012	<.013	<.014
Aroclor 1242	<.006	<.006	<.006	<.006	<.006	<.006	<.006	<.006	<.006	<.006	<.006
Aroclor 1248	0.4	3.2	0.182 J	0.668 J	0.425J	0.74	<.004	0.16	<.004	1.39	55.2
Aroclor 1254	<.009	<.009	<.009	<.009	<.009	<.009	<.009	<.009	<.009	<.009	<.010
Aroclor 1260	<.008	<.009	<.009	<.008	<.008	<.009	<.009	<.008	<.008	<.009	<.009

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Duplicate Samples for QA/QC Purpose

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 36 of 40 10/11/2010

Sample ID	Pink-1B- 34	SB-121- 28	SB-122- 28	SB-131A- 33	PE-3B- 32C	SB-121- 36C	SB-122- 36C	SB-56B- 35	SPE-42B- 36	SB-70B- 28	SB-97A- 29
Date Collected	12/30/09	12/30/09	12/30/09	12/30/09	12/30/09	12/30/09	12/30/09	1/4/10	1/4/10	1/4/10	1/4/10
Depth Collected (ft bgs)	33.5-34.0	27.5-28.0	27.5-28.0	32.5-33.0	31.5-32.0	35.5-36.0	35.5-36.0	34.5-35.0	35.5-36.0	27.5-28.0	28.5-29.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.012	<.011	<.014	<.014	<.013	<.012	<.012	<.012	<.012
Aroclor 1242	<.006	<.006	<.006	<.005	<.006	<.006	<.006	<.005	<.005	<.005	<.005
Aroclor 1248	101	2.39	17.5	2.08	0.84	31.9	10.9	0.06	5.87	0.49	0.13
Aroclor 1254	<.009	<.009	<.008	<.008	<.010	<.010	<.009	<.008	<.008	<.008	<.008
Aroclor 1260	<.008	<.008	<.008	<.008	<.009	<.009	<.009	<.008	<.008	<.008	<.008

Notes:

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mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.</p>

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

File No. 75418.20 Page 37 of 40 10/11/2010

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-98A- 35	SB-118A- 32	SB-118A- 34C	SB-164A-24	SB-170-8	SB-170- 24	SB-163A- 24	SB-111B- 12	SB-111B- 16	SB-110B- 12	SB-110B- 16
Date Collected	1/4/10	1/4/10	1/4/10	1/25/10	1/25/10	1/25/10	1/25/10	1/26/10	1/26/10	1/26/10	1/26/10
Depth Collected (ft bgs)	34.5-35.0	31.5-32.0	33.5-34.0	23.5-24.0	7.5-8.0	23.5-24.0	23.5-24.0	11.5-12.0	15.5-16.0	11.5-12.0	15.5-16.0
PCB (mg/Kg)											
Aroclor 1232	<.013	<.012	<.012	<.015	<.013	<.012	<.013	<.012	<.012	<.012	<.012
Aroclor 1242	<.006	<.006	<.005	<.007	<.006	<.006	<.006	<.006	<.005	<.006	<.005
Aroclor 1248	0.08	1.32	<.004	<.005	<.004	0.04	<.004	0.18	<.004	310	2.69
Aroclor 1254	<.009	<.009	<.008	<.011	<.009	<.009	<.009	<.009	<.008	<.009	<.008
Aroclor 1260	<.009	<.008	<.008	<.010	<.009	<.008	<.009	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet







SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

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Sample ID	SB-108B- 12	SB-108B- 16	SB-111B- 10	Septic Tank-2	SB-172A-4	SB-172A- 8	SB-172A- 12	SB-173-4	SB-173-8	SB-173- 12	SB-174-4
Date Collected	1/26/10	1/26/10	1/26/10	12/8/09	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10
Depth Collected (ft bgs)	11.5-12.0	15.5-16.0	9.5-10.0	8.0-8.5	3.5-4.0	7.5-8.0	11.5-12.0	3.5-4.0	7.5-8.0	11.5-12.0	3.5-4.0
PCB (mg/Kg)											
Aroclor 1232	<.012	<.012	<.012	<.013	<.011	<.012	<.012	<.011	<.011	<.012	<.012
Aroclor 1242	<.006	<.005	<.005	<.006	<.005	<.005	<.006	<.005	<.005	<.006	<.005
Aroclor 1248	7.92	<.004	51.4	0.19	0.74	1.2	20.8	2.76	47	29.2	0.20
Aroclor 1254	<.009	<.008	<.008	<.009	<.008	<.008	<.009	<.008	<.008	<.009	<.008
Aroclor 1260	<.008	<.008	<.008	<.009	<.008	<.008	<.008	<.008	<.008	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected :< indicates that the analyte was not detected above the listed laboratory reportin

ND = Not Detected

ND = Not Detected

J = Indicates an estimated value.

Samples with associat Duplicate Samples for Samples with associated soil removed from the Site are not presented in this tat

J = Indicates an estimated value. PCB = PolyChlorinated Biphenyls

PCB = PolyChlorinated Biphenyls

ft = Feet

Notes:

ft = Feet

bgs = Below Ground Surface

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

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QA: CL Date: 10/11/10

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	SB-174-8	SB-174- 12	SB-148A- 8	SB-148A- 12	SB-147A- 8	SB-147A- 12	WC- Backfill	SB-150A- 8
Date Collected	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10
Depth Collected (ft bgs)	7.5-8.0	11.5-12.0	7.5-8.0	11.5-12.0	7.5-8.0	11.5-12.0		7.5-8.0
PCB (mg/Kg)								
Aroclor 1232	<.012	<.012	<.011	<.011	<.012	<.013	<.012	<.012
Aroclor 1242	<.006	<.006	<.005	<.005	<.005	<.006	<.005	<.005
Aroclor 1248	1,180	0.53	4.1	0.97	45.7	<.004	10.7	4.86
Aroclor 1254	<.009	<.009	<.008	<.008	<.008	<.009	<.008	<.008
Aroclor 1260	<.008	<.008	<.008	<.008	<.008	<.009	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet



75440

SOIL ANALYTICAL RESULTS-OUTSIDE BUIDLING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 40 of 40 10/11/2010

Sample ID	SB-150A- 8	SB-149A- 8	SB-149A- 12	SB-171A-4	SB-171A- 8	SB-171A- 12	SB-26A- 28	SB-26A- 32
Date Collected	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/9/10	3/25/2010	3/25/2010
Depth Collected (ft bgs)	11.5-12.0	7.5-8.0	11.5-12.0	3.5-4.0	7.5-8.0	11.5-12.0	27.5-28.0	31.5-32.0
PCB (mg/Kg)								
Aroclor 1232	<.014	<.012	<.013	<.011	<.015	<.013	<.012	<.011
Aroclor 1242	<.006	<.005	<.006	<.005	<.007	<.006	<.005	<.005
Aroclor 1248	3.43	290	6.78	3.63	2.88	12.6	0.06	5.4
Aroclor 1254	<.010	<.008	<.009	<.008	<.011	<.009	<.008	<.008
Aroclor 1260	<.009	<.008	<.009	<.007	<.010	<.009	<.008	<.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

ND = Not Detected

Samples with associated soil removed from the Site are not presented in this table.

J = Indicates an estimated value.

PCB = PolyChlorinated Biphenyls

ft = Feet

SUMMARY OF ANALYTICAL DATA FOR SOIL OUTSIDE BUILDING FOOTPRINT (mg/kg) $\,$

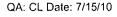
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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

					Maximum Concer	I			0~2 ft		·
Analytical Parameter ¹	Frequency Of Detection	Range Detected ²	Median Concentration ³	Arithmetic Mean Concentration ³	Location	Depth	Frequency Of Detection	Arithmetic Mean Concentration ³ (mg/kg)	Maximum Detected Concentration (mg/kg)	Standard Deviation ³ (mg/kg)	95% UCL ³ (mg/kg)
		(mg/kg)	(mg/kg)	(mg/kg)		(ft)		(119/19)	(mg/kg)	(mg/kg)	(1119/119)
PCB											
Aroclor 1232	2 / 420	0.247 - 0.59	0.0060	0.018	SPE-10A-20	19.5-20.0	0 / 23	ND	ND	NC	ND
Aroclor 1242 Aroclor 1248	1 / 420 309 / 420	3.805 - 3.81 0.023 - 2800	0.0030 0.84	0.023 29	SB-141-8 SB-147-2	7.5-8.0 1.5-2.0	0 / 23 16 / 23	ND 157	ND 2,800	NC 591	ND 398
Aroclor 1254 Aroclor 1260	39 / 420 4 / 420	0.015 - 30.10 0.15 - 0.73		0.34 0.019	SPE-23 PE-18	22.5 to 23.0 15.0-15.5	1 / 23 2 / 23	0.046 0.042	1.0 0.59	0.20 0.13	0.13 0.097

Notes:

- 1. Only detected aroclors are listed.
- 2. These statistics only include analytical results for constituents detected above the sample reporting limit (RL).
- 3. These statistics include all detected constituent concentrations and one-half the RL for constituents not detected above the RL. ND = Not Detected; NC = Not Calculated; UCL = Upper Confidence Level; ft = Feet.





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SUMMARY OF ANALYTICAL DATA FOR SOIL OUTSIDE BUILDING FOOTPRINT (mg/kg)
Unimatic Manufacturing Corp
25 Sherwood Lane
Fairfield, New Jersey 07004
ISRA Case #E20010335

			0~6 ft						0~15 ft		
Analytical Parameter ¹	Frequency Of	Arithmetic Mean	Maximum Detected	Standard Deviation ³	95% UCL ³	Frequen Of	тсу	Arithmetic Mean	Maximum Detected	Standard Deviation ³	95% UCL ³
vivary issuit vitaline is	Detection	Concentration ³ (mg/kg)	Concentration (mg/kg)	(mg/kg)	(mg/kg)	Detection	on		Concentration (mg/kg)		(mg/kg)
<u>PCB</u>											
Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	0 / 82 0 / 82 64 / 82 8 / 82 2 / 82	ND ND 57 0.50 0.022	ND ND 2,800 25 0.59	NC NC 318 3.0 0.077	ND ND 126 1.1 0.038	1 / 2 156 / 2 15 / 2	207 207 207 207 207	ND 0.029 41 0.40 0.016	ND 3.8 2,800 28 0.59	NC 0.27 221 2.7 0.053	ND 0.065 71 0.78 0.023

Notes:

- 1. Only detected aroclors are listed.
- 2. These statistics only include analytical results for constituents detected above the sample reporting limit (RL).
- 3. These statistics include all detected constituent concentrations and one-half the RL for constituents not detected above the RL. ND = Not Detected; NC = Not Calculated; UCL = Upper Confidence Level; ft = Feet.

SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

File No. 75418.20

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ISRA Case #E20010335

Sample ID	FT-1A	FT-1B (8-8.5)	FT-2A	FT-2B (8-8.5)	FT-2B (13-13.5)	FT-3A	FT-3B (8-8.5)	FT-3B (11-11.5)	FT-4A	FT-4B (8-8.5)	FT-5 (3-3.5)
Date Collected	5/9/03	6/2/03	5/9/03	6/4/03	6/4/03	5/9/03	6/4/03	6/4/03	5/9/03	6/4/03	6/4/03
Depth Collected (ft bgs)	3.5 - 4.0	8.0 - 8.5	3.5 - 4.0	8.0 - 8.5	13.0 - 13.5	3.5 - 4.0	8.0 - 8.5	11.0 - 11.5	3.5 - 4.0	8.0 - 8.5	3.0 - 3.5
PCB (mg/Kg)											
Aroclor 1232	<.020	<.019	<.020	<.020	<.020	<.020	<.020	<.018	<.020	<.020	<.020
Aroclor 1242	<.020	<.019	<.020	<.020	<.020	<.020	<.020	<.018	<.020	<.020	<.020
Aroclor 1248	49.4	0.74	3.2	238.0	<.020	6.7	2.6	<.018	9.0	37.0	48.0
Aroclor 1254	<.020	<.019	<.020	<.020	<.020	<.020	<.020	<.018	<.020	<.020	<.020
Aroclor 1260	<.020	<.019	<.020	<.020	<.020	<.020	<.020	<.018	<.020	<.020	<.020

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet



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QA: CL Date: 7/15/10

12/21/2010

SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Sample ID	FT-5 (8-8.5)	FT-5 (13-13.5)	FT-6 (3-3.5)	FT-6 (9-9.5)	FT-6 (13-13.5)	FT-7 (2-2.5)	FT-8 (3-3.5)	FT-9 (3-3.5)	FT-9 (9-9.5)	FT-10 (8-8.5)	FT-11 (3-3.5)
Date Collected	6/4/03	6/4/03	6/4/03	6/4/03	6/4/03	6/4/03	6/4/03	6/4/03	6/4/03	6/4/2003	7/16/03
Depth Collected (ft bgs)	8.0 - 8.5	13.0 - 13.5	3.0 - 3.5	9.0 - 9.5	13.0 - 13.5	2.0 - 2.5	3.0 - 3.5	3.0 - 3.5	9.0 - 9.5	8.0 - 8.5	3.0 - 3.5
PCB (mg/Kg)	i ·							-			
Aroclor 1232	<.020	<.017	<.020	<.017	<.020	<.020	<.018	<.019	<.020	<.020	<.019
Aroclor 1242	<.020	<.017	<.020	<.017	<.020	<.020	<.018	<.019	<.020	<.020	<.019
Aroclor 1248	122.0	0.97	236.0	11.6	2.0	55.0	0.225	1.2	<.020	156.0	<.019
Aroclor 1254	<.020	<.017	<.020	<.017	<.020	<.020	<.018	<.019	<.020	<.020	<.019
Aroclor 1260	<.020	<.017	<.020	<.017	<.020	<.020	<.018	<.019	<.020	<.020	<.019

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet

File No. 75418.20 FOOTPRINT Page 3 of 10 12/21/2010

SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	FT-11 (8-8.5)	FT-11 (13-13.5)	FT-12 (2-2.5)	FT-13 (2-2.5)	FT-4C	FT-6A	FT-7A	FT-10A	FT-19	FT-19	FT-19
Date Collected	7/16/03	7/16/03	7/16/03	7/16/03	10/26/09	10/22/09	10/26/09	10/26/09	10/23/09	10/23/09	10/23/09
Depth Collected (ft bgs)	8.0 - 8.5	13.0 - 13.5	2.0 - 2.5	2.0 - 2.5	15.5-16.0	19.5-20.0	7.5-8.0	13.0 - 13.5	3.0-3.5	8.0-8.5	13.0-13.5
PCB (mg/Kg)			•								
Aroclor 1232	<.017	<.017	<.018	<.019	<0.012	<0.011	<0.012	<0.011	< 0.012	<0.011	<0.011
Aroclor 1242	<.017	<.017	<.018	<.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aroclor 1248	35.2	<.017	0.815	<.019	0.49	0.29	0.25	0.09	5.62	5.23	3.71
Aroclor 1254	<.017	<.017	<.018	<.019	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Aroclor 1260	<.017	<.017	<.018	<.019	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet



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SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Sample ID	FT-20	FT-20	FT-22	FT-22	FT-23	FT-23	FT-24	FT-24	FT-25	FT-25	FT-26
Date Collected	10/22/09	10/22/09	10/26/09	10/26/09	10/26/09	10/26/09	10/22/09	10/22/09	10/26/09	10/26/09	10/23/09
Depth Collected (ft bgs)	2.0-2.5	7.5-8.0	7.5-8.0	13.0-13.5	7.5-8.0	11.5- 12.0	3.0-3.5	9.0-9.5	2.0 - 2.5	7.5-8.0	7.5-8.0
PCB (mg/Kg)											·
Aroclor 1232	<0.012	<0.011	<0.012	<0.011	<0.011	<0.012	<0.012	<0.011	<0.011	<0.011	<0.011
Aroclor 1242	<0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aroclor 1248	5.34	<0.004	1.44	0.62	651	0.15	0.32	<0.004	10.2	254	0.16
Aroclor 1254	<0.009	<0.008	<0.008	<0.008	<0.008	<0.009	<0.008	<0.008	<0.008	<0.008	<0.008
Aroclor 1260	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet

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SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Sample ID	FT-27	FT-28	FT-28	FT-34	FT-33	FT-25	FT-32	FT-22	FT-35	FT-31	FT-30
Date Collected	10/23/09	10/26/09	10/26/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09
Depth Collected (ft bgs)	7.5-8.0	3.0-3.5	8.0-8.5	7.5 - 8.0	7.5 - 8.0	2.5-3.0	7.5-8.0	12.5-13.0	7.5-8.0	2.0-2.5	2.0-2.5
PCB (mg/Kg)		:									
Aroclor 1232	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.012	<0.012	<0.012	<0.012	<0.012
Aroclor 1242	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.005	<0.006
Aroclor 1248	0.12	<0.004	<0.004	4.89	<.004	0.41	592	22.9	0.64	<0.004	1.41
Aroclor 1254	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.009
Aroclor 1260	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet



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SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane

Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	FT-34	FT-32	FT-22	FT-30	FT-25	EPA-4	EPA-4	EPA-4	EPA-4	EPA-5	EPA-5
Date Collected	11/16/09	11/16/09	11/16/09	11/16/09	11/16/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09
Depth Collected (ft bgs)	15.5-16.0	15.5-16.0	15.5-16.0	7.5-8.0	7.5-8.0	0.5-1.0	2.5-3.0	7.5-8.0	11.5-12.0	0.5-1.0	2.5-3.0
PCB (mg/Kg)				, , , , , , , , , , , , , , , , , , ,							
Aroclor 1232	<0.011	<0.012	<0.011	<0.011	<0.012	<0.012	<0.012	<0.011	<0.011	<0.012	<0.011
Aroclor 1242	<0.005	<0.005	<0.005	<0.005	<0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Aroclor 1248	0.34	99.4	0.11	0.09	<0.004	<0.004	<0.004	<0.004	<0.004	9.53	<0.004
Aroclor 1254	<0.008	<0.008	<0.008	<0.008	<0.009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
Aroclor 1260	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet

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SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Sample ID	EPA-5	EPA-5	FT-29	FT-29	FT-21A	EPA-6	EPA-6	EPA-6	EPA-6	FT-21	FT-36
Date Collected	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	11/18/09	12/29/09
Depth Collected (ft bgs)	7.5-8.0	11.5-12.0	3.0-3.5	8.0-8.5	8.0-8.5	0.5-1.0	2.5-3.0	7.5-8.0	11.5-12.0	15.5-16.0	0.5-1.0
PCB (mg/Kg)											
Aroclor 1232	<0.011	<0.011	<0.012	<0.012	<0.012	<0.011	<0.011	<0.012	<0.012	<0.012	<0.011
Aroclor 1242	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.005	<0.005
Aroclor 1248	<0.004	<0.004	0.42	0.63	2,130	2.14	3.83	<0.004	<0.004	1.88	14.30
Aroclor 1254	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.009	<0.008	<0.008
Aroclor 1260	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet



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SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane

Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	FT-39	FT-39	FT-37	FT-40	FT-40	FT-42	FT-42	FT-42	FT-42	FT-38	FT-41
Date Collected	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09
Depth Collected (ft bgs)	0.5-1.0	2.5-3.0	0.5-1.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0	7.5-8.0	23.5-24.0	0.5-1.0	0.5-1.0
PCB (mg/Kg)											
Aroclor 1232	<0.011	<0.011	<0.012	<0.012	<0.011	<0.012	<0.011	<0.012	<0.012	<0.012	<0.011
Aroclor 1242	<0.005	<0.005	<0.006	<0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.006	<0.005
Aroclor 1248	848	0.58	1.02	3.7	0.08	165	5.58	<0.004	<0.004	5.29	0.09
Aroclor 1254	<0.008	<0.008	<0.009	<0.009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.009	<0.008
Aroclor 1260	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet

SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 File No. 75418.20 Page 9 of 10 12/21/2010

Sample ID	FT-41	FT-41	FT-41	FT-43	FT-38	FT-37	FT-36	FT-44	FT-44	FT-46	FT-32A
Date Collected	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/29/09	12/30/09	12/30/09	12/30/09	12/30/09
Depth Collected (ft bgs)	2.5-3.0	7.5-8.0	15.5-16.0	5.5-6.0	2.5-3.0	2.5-3.0	2.5-3.0	5.5-6.0	7.5-8.0	23.5-24.0	23.5-24.0
PCB (mg/Kg)											
Aroclor 1232	<0.013	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012	<0.011	<0.012	<0.013	<0.012
Aroclor 1242	<0.006	<0.006	<0.005	<0.005	<0.006	<0.006	<0.006	<0.005	<0.005	<0.006	<0.005
Aroclor 1248	286	8.74	0.35	0.13	0.04	0.19	52.8	38.3	6.44	0.57	0.75
Aroclor 1254	<0.009	<0.009	<0.008	<0.008	<0.009	<0.009	<0.008	<0.008	<0.008	<0.009	<0.008
Aroclor 1260	<0.009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.009	<0.008

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet



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SOIL ANALYTICAL RESULTS-WITHIN BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	FT-25A	FT-44	FT-45	FT-45	FT-45	FT-48	FT-48	FT-49	FT-51
Date Collected	12/30/09	12/30/09	12/30/09	12/30/09	12/30/09	2/18/10	2/18/10	2/18/10	2/18/10
Depth Collected (ft bgs)	15.5-16.0	15.5-16.0	2.5-3.0	7.5-8.0	15.5-16.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0
PCB (mg/Kg)									
Aroclor 1232	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.011
Aroclor 1242	<0.006	<0.005	<0.005	<0.005	<0.006	<0.006	<0.006	<0.005	<0.005
Aroclor 1248	0.14	<0.004	2,530	46.1	8.34	0.76	<0.004	2.87	2.42
Aroclor 1254	<0.009	<0.008	<0.008	<0.008	<0.009	<0.009	<0.009	<0.008	<0.008
Aroclor 1260	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.007

Notes:

mg/Kg = milligrams per kilogram

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Samples with associated soil removed from the Site are not presented in this table.

Only detected aroclors are listed.

ft = Feet

TABLE 81-4 SUMMARY OF ANALYTICAL DATA FOR SOIL WITHIN BUILDING FOOTPRINT (mg/kg) Unimatic Manufacturing Corp 25 Sherwood Lane

23 SHOLMOOD FOLID
Fairfield, New Jersey 07004
ISRA Case #E20010335

			<u> </u>			Υ			0~15	ft				0-6	ft	
Analytical Peremeter 1	Frequency Of Detection	Range Detected ²	Median Concentration ³	Arithmetic Mean Concentration ³	Maximum Detecte	ed Concentration Depth	Frequency Of Detection	Arithmetic Mean Concentration ³ (0-15 feet)	Maximum Detected Concentration (mg/kg)	Minimum Detected Concentration (mg/kg)	Standard Deviation (mg/kg)	95% UCL ³ (mg/kg)	Of Detection ²	Arithmetic Mean Concentration ³ (0-15 feet)	Maximum Delected Concentration (mg/kg)	Minimum Detected Concentration (mg/kg)
PCB (mg/Kg) Aroclor 1248	82 / 108	0.0445 - 2530	0.753	82	FT-45	2.5-3.0	71 / 95	92	2,530	0.0020	357	164	40 / 48	92	2,530	0.04

1. Only detected aroclors are listed.
2. These statistics only include analytical results for constituents detected above the sample reporting limit (RL).
3. These statistics include all detected constituent concentrations and one-half the RL for constituents not detected above the RL.



TABLE III-5 GROUNDWATER ANALYTICAL RESULTS

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	GW-2 (Unfiltered)	GW-2 (Filtered)	GW-3 (Unfiltered)	GW-3 (Filtered)	GW-4 (Unfiltered)	MW-1 (Unfiltered)	MW-1 (Unfiltered)	MW-1 (Filtered)	MW-1	MW-1	MW-2 (Unfiltered)
Date Collected	4/19/02	4/19/02	4/19/02	4/19/02	4/19/02	7/3/02	11/3/04	11/3/04	12/10/09	12/10/09	7/3/02
Depth to water(ft bgs)	18.46	18.46	22.15	22.15	13.11	20.85	20.45	20.45	20.21	20.21	15.85
Sample Depth (ft)									22.6	27.6	<u> </u>
PCB (ug/L)											
Aroclor 1242	<.015	<.122	<.120	<.109	<.286	<.112	<.500	<.500	<1.0	<1.0	<.106
Aroclor 1248	150.0	22.0	100.0	36.0	440.0	<.218	<.500	<.500	<1.0	<1.0	22.0
Aroclor 1254	<.113	<.092	<.091	<.082	<.216	<.084	<.500	<.500	<1.0	<1.0	<.080
Aroclor 1260	<.028	· <.023	<.023	<.021	<.054	<.021	<.500	<.500	<1.0 ⁻	<1.0	<.020

Notes:

ug/L = microgram per liter (ppb)

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Highlighted results were not included in the risk assessment and the reasons are summarized below:

- (1) groundwater at the locations was greater than 15 feet (ft) below ground surface (bgs).
- (2) Groundwater depth at GW-4 was measured at 13 feet; however, the groundwater results were collected almost a decade ago and were not considered representative of the current Site condition. Therefore, GW-4 results were not used in the risk assessment.
- (3) MW-KB-1 and MW-KB-2 were off-Site wells.
- J = Estimated Value.

NA = Not Analyzed

ft = Feet

GROUNDWATER ANALYTICAL RESULTS

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QA: CL Date: 7/15/10

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	MW-2 (Filtered)	MW-3 (Unfiltered)	MW-3 (Unfiltered)	MW-3 (Filtered)	MW-3	MW-3	MW-4 (Unfiltered)	MW-4 (Filtered)	MW-4	MW-4	MW-4A
Date Collected	7/3/02	7/3/02	11/3/2004	11/3/2004	12/11/09	12/11/09	11/4/2004	11/4/2004	12/11/09	12/11/09	12/11/09
Depth to water(ft bgs)	15.85	15.94	15.56	15.56	15.28	15.28	15.75	15.75	15.47	15.28	15.2
Sample Depth (ft)					21.7	26.7			17.5	21.7	28.7
PCB (ug/L)											
Aroclor 1242	<.110	<.115	<.500	<.526	<1.0	<1.0	<.500	<.500	190	260	35
Aroclor 1248	16.8	<.225	<.500	<.526	<1.0	<1.0	448.0	361.0	<20	<25	<5.1
Aroclor 1254	<.083	<.087	<.500	<.526	<1.0	<1.0	<.500	<.500	<20	<25	<5.1
Aroclor 1260	<.021	<.022	<.500	<.526	<1.0	<1.0	<.500	<.500	<20	<25	<5.1

Notes:

ug/L = microgram per liter (ppb)

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Highlighted results were not included in the risk assessment and the reasons are summarized below:

- (1) groundwater at the locations was greater than 15 feet (ft) below ground surface (bgs).
- (2) Groundwater depth at GW-4 was measured at 13 feet; however, the groundwater results were collected almost a decade ago and were not considered representative of the current Site condition. Therefore, GW-4 results were not used in the risk assessment.
- (3) MW-KB-1 and MW-KB-2 were off-Site wells.

J = Estimated Value.

NA = Not Analyzed

ft = Feet





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GROUNDWATER ANALYTICAL RESULTS

25 Sherwood Lane

Unimatic Manufacturing Corp Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	MW-4A	MW-4A	MW-4A	MW-4B	MW-5 (Unfiltered)	MW-5 (Filtered)	MW-5	MW-5	MW-6 (Unfiltered)	MW-6 (Filtered)	MW-KB-1	MW-KB-2
Date Collected	12/11/09	1/8/10	1/8/10	4/19/10	11/3/2004	11/3/2004	12/10/09	12/10/09	11/4/2004	11/4/2004	4/9/2010	4/9/2010
Depth to water(ft bgs)	15.2				15.94	15.94	15.66	15.66	13.94	13.94	4.00	3.73
Sample Depth (ft)	33.7	25.0	33.0	52.5			19.0	24.0			7.00	7.00
PCB (ug/L)		5 65										
Aroclor 1242	· 37	150	94	<1.0	<.500	<.510	<1.0	<1.0	<.500	<.505	<1.0	<1.0
Aroclor 1248	<5.1	<20	<20	1.08	2.3	2.0	<1.0	<1.0	25.7	10.5	<1.0	<1.0
Aroclor 1254	<5.1	<20	<20	<1.0	<.500	<.510	<1.0	<1.0	<.500	<.505	<1.0	<1.0
Aroclor 1260	<5.1	<20	<20	<1.0	<.500	<.510	<1.0	<1.0	<.500	<.505	<1.0	<1.0

Notes:

ug/L = microgram per liter (ppb)

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Highlighted results were not included in the risk assessment and the reasons are summarized below:

- (1) groundwater at the locations was greater than 15 feet (ft) below ground surface (bgs).
- (2) Groundwater depth at GW-4 was measured at 13 feet; however, the groundwater results were collected almost a decade ago and were not considered representative of the current Site condition. Therefore, GW-4 results were not used in the risk assessment.
- (3) MW-KB-1 and MW-KB-2 were off-Site wells.

J = Estimated Value.

NA = Not Analyzed

ft = Feet

GROUNDWATER ANALYTICAL RESULTS

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Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Sample ID	MW-6	MW-6	MW-7	MW-7	MW-8	MW-8	MW-9	MW-9	MW-10
Date Collected	12/11/09	12/11/09	12/10/09	12/10/09	12/10/09	12/10/09	12/11/09	12/11/09	12/11/09
Depth to water(ft bgs)	13.64	13.64	7.27	7.27	6.82	6.82	11.27	11.27	12.9
Sample Depth (ft)	19.1	24.1	9.5	14.5	12.5	17.5	12.8	17.8	15.7
PCB (ug/L)									
Aroclor 1242	13	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	5.6
Aroclor 1248	<2.2	<2.0	1.9	1.9	1.5	1.4	0.74 J	0.99 J	<1.0
Aroclor 1254	<2.2	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 1260	<2.2	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

ug/L = microgram per liter (ppb)

< indicates that the analyte was not detected above the listed laboratory reporting limit.

Highlighted results were not included in the risk assessment and the reasons are summarized below:

- (1) groundwater at the locations was greater than 15 feet (ft) below ground surface (bgs).
- (2) Groundwater depth at GW-4 was measured at 13 feet; however, the groundwater results were collected almost a decade ago and were not considered representative of the current Site condition. Therefore, GW-4 results were not used in the risk assessment.
- (3) MW-KB-1 and MW-KB-2 were off-Site wells.

J = Estimated Value.

NA = Not Analyzed

ft = Feet





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SUMMARY OF ANALYTICAL DATA FOR GROUNDWATER Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

ISRA Case #E20010335

Analytical Parameter ¹	Frequency Of Detection	Range Detected ² (ug/L)	Median Concentration ³ (ug/L)	Arithmetic Mean Concentration ³ (ug/L)	Standard Deviation ³ (ug/L)	95% UCL ³ (ug/L)	Maximum Detection	cted Concentration Depth (ft)
PCB Aroclor 1242 Aroclor 1248	3 / 9 6 / 9	5.6 - 14 0.74 - 1.9	0.080 1.1	3.7 1.1	5.9 0.66	7.5 1.5	MW-6 MW-7	24.1 9.5

Notes:

- 1. Only detected aroclors are listed.
- 2. These statistics only include analytical results for constituents detected above the sample reporting limit (RL). Highlighted results in Table A-5 were not included in this table.
- 3. These statistics include all detected constituent concentrations and one-half the RL for constituents not detected above the RL.
- 4. For the filtered/unfiltered pair the unfiltered sample results were included in the statistics presented in this table. ug=microgram per liter (ppb), NC = not calculated

OFF-SITE SOIL PCB ANALYTICAL RESULTS Former Unimatic Manufacturing Co. Facility

25 Sherwood Lane Fairfield, New Jersey File No. 75418.20 Page 1 of 7 10/11/2010

Sample ID	21-1-1	21-1-3	21-1A-8	21-2A-1	21-2A-3	21-3-1	21-3-3	21-4-1	21-4-3	21-5-1	21-5-12
Date Collected	1/27/10	1/27/10	6/4/10	6/4/10	6/4/10	6/4/10	6/4/10	6/4/10	6/4/10	6/4/10	6/4/10
Depth Collected (ft bgs)	0.5-1.0	2.5-3.0	7.5-8.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0	0.5-1.0	11.5-12.0
Aroclor 1232	<.012	<.012	<.012	<.012	<.011	<.011	<.011	<.011	<.012	<.011	<.012
Aroclor 1242	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Aroclor 1248	0.44	0.24	<.004	<.004	<.003	<.004	<.004	<.004	<.004	<.004	<.004
Aroclor 1254	<.008	<.008	<.008	<.008	<.008	<.008	<.008	0.97	<.008	<.008	<.008
Aroclor 1260	<.008	<.008	<.008	0.3	<.007	0.59	<.008	<.008	<.008	<.008	<.008

Notes:

All results in milligrams per kilogram (mg/kg)

< indicates that the analyte was not detected above the listed laboratory reporting limit.



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TABLE III-7 OFF-SITE SOIL PCB ANALYTICAL RESULTS Former Unimatic Manufacturing Co. Facility 25 Sherwood Lane

Fairfield, New Jersey

Sample ID	21-6-1	21-7-1	21-7A	21-8-1	21-8A	21-9-1	21-10-1	21-11	21-11	21-21	21-12
Date Collected	6/4/10	7/1/10	7/27/10	7/1/10	7/27/10	7/1/10	7/1/10	7/27/10	8/24/10	8/24/10	8/24/10
Depth Collected (ft bgs)	0.5-1.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0	0.5-1.0	0.5-1.0	0.5-1.0	2.5-3.0	2.5-3.0	0.5-1.0
Aroclor 1232	<.012	<.011	<.011	<.012	<.011	<.012	<.011	<.011	<.015	<.012	<.012
Aroclor 1242	<.006	<.005	<.005	<.005	<.005	<.006	<.005	<.005	<.007	<.006	<.006
Aroclor 1248	<.004	2.36	0.04	<.004	0.22	<.004	<.004	0.21	<.005	<.004	<.004
Aroclor 1254	<.008	<.008	<.008	<.008	<.008	<.009	<.008	<.008	2.51	1.14	0.48
Aroclor 1260	<.008	<.008	<.008	0.82	<.008	<.008	<.008	<.008	0,52	0.25	0.15

OFF-SITE SOIL PCB ANALYTICAL RESULTS
Former Unimatic Manufacturing Co. Facility
25 Sherwood Lane
Fairfield, New Jersey

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Sample ID	21-12	21-13	21-14R	21-14R	21-15	21-15	21-16	21-17	21-17	21-18	21-19
Date Collected	8/24/10	7/27/10	7/29/10	8/24/10	8/24/10	8/24/10	8/24/10	8/24/10	8/24/10	8/24/10	8/24/10
Depth Collected (ft bgs)	2.5-3.0	0.5-1.0	0.5-1.0	2.5-3.0	0.5-1.0	2.5-3.0	0.5-1.0	0.5-1.0	2.5-3.0	0.5-1.0	0.5-1.0
Aroclor 1232	<.011	<.012	<.012	<.012	<.011	<.012	<.012	<.012	<.012	<.012	<.013
Aroclor 1242	<.005	<.005	<.005	<.006	<.005	<.005	<.006	<.006	<.006	<.005	<.006
Aroclor 1248	<.004	0.09	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004
Aroclor 1254	<.008	<.008	<.008	<.009	0.42	<.008	<.009	<.009	<.009	<.008	<.009
Aroclor 1260	<.008	<.008_	1.17	<.008	<.008	<.008	0.06	0.35	<.008	0.12	0.47



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OFF-SITE SOIL PCB ANALYTICAL RESULTS Former Unimatic Manufacturing Co. Facility 25 Sherwood Lane Fairfield, New Jersey

Sample ID	30-1-4	30-1-16	30-1-32	30-1- 60000	30-2-24	30-2-26	30-2-28	30-2-34	30-3-24	30-4-16	30-4-24
Date Collected	1/27/10	1/27/10	1/27/10	1/27/10	1/26/10	1/26/10	1/26/10	1/26/10	1/27/10	1/27/10	1/27/10
Depth Collected (ft bgs)	3.5-4.0	15.5-16.0	31.5-32.0	31.5-32.0	23.5-24.0	25.5-26.0	27.5-28.0	33.5-34.0	23.5-24.0	15.5-16.0	23.5-24.0
Aroclor 1232	<.013	<.014	<.012	<.012	<.012	<.014	<.012	<.012	<.013	<.013	<.012
Aroclor 1242	<.006	<.007	<.006	<.005	<.006	<.006	<.006	<.006	<.006	<.006	<.006
Aroclor 1248	<.004	<.005	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004
Aroclor 1254	<.009	<.010	<.009	<.008	<.009	<.010	<.009	<.008	<.009	<.009	<.009
Aroclor 1260	<.009	<.010	<.008	<.008	<.008	<.009	<.008	<.008	<.009	<.009	<.009

OFF-SITE SOIL PCB ANALYTICAL RESULTS Former Unimatic Manufacturing Co. Facility 25 Sherwood Lane

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Fairfield, New Jersey

Sample ID	30-4-32	30-5-28	30-5-34	30-6-28	30-6-34	JC-2-8	JC-4-16	JC-4-21	SB-30	SB-31	SB-31A- 16
Date Collected	1/27/10	1/26/10	1/26/10	1/26/10	1/26/10	3/9/10	3/9/10	3/9/10	7/18/2002	7/18/2002	5/9/03
Depth Collected (ft bgs)	31.5-32.0	27.5-28.0	33.5-34.0	27.5-28.0	33.5-34.0	7.5-8.0	15.5-16.0	20.5-21.0	5.0-5.5	4.0-8.0	16.0-16.5
Aroclor 1232	<.012	<.013	<.013	<.012	<.012	<.012	<.013	<.015	<.020	<.019	<.019
Aroclor 1242	<.005	<.006	<.006	<.006	<.005	<.006	<.006	<.007	<.020	<.019	<.019
Aroclor 1248	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.005	<.020	<.019	<.019
Aroclor 1254	<.008	<.009	<.009	<.009	<.008	<.009	<.009	<.011	<.020	<.019	<.019
Aroclor 1260	<.008	<.008	<.009	<.009	<.008	<.008	<.009	<.010	<.020	<.019	<.019



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OFF-SITE SOIL PCB ANALYTICAL RESULTS Former Unimatic Manufacturing Co. Facility 25 Sherwood Lane

Fairfield, New Jersey

Sample ID	SB-34	SB-34A- 16	SB-34A- 19	SB-37	SB-38	SB-38A (15-15.5)	SB-39	SB-40	SB-59a	SB-60a
Date Collected	7/18/2002	5/9/03	5/9/03	10/17/2002	10/17/2002	`6/2/03´	10/17/2002	10/17/2002	7/18/2002	7/18/2002
Depth Collected (ft bgs)	5.0-5.5	16.0-16.5	19.0-19.5	4.0-4.5	4.0-4.5	15.0 - 15.5	6.0-6.5	4.0-4.5	6.0-6.5	7.5-8.0
Aroclor 1232	<.021	<.019	<.021	<.021	<.022	<0.19	<.022	<.021	<.019	<.022
Aroclor 1242	<.021	<.019	<.021	<.021	<.022	<.019	<.022	<.021	<.019	<.022
Aroclor 1248	<.021	<.019	<.021	0.06	0.43	<.019	0.04	0.03	<.019	<.022
Aroclor 1254	<.021	<.019	<.021	0.03	0.17	<.019	0.02	0.02	<.019	<.022
Aroclor 1260	<.021	<.019	<.021	<.021	0.042	<.019	ND	<.021	<.019	<.022

OFF-SITE SOIL PCB ANALYTICAL RESULTS Former Unimatic Manufacturing Co. Facility

nmatic Manufacturing Co. Fa 25 Sherwood Lane Fairfield, New Jersey File No. 75418.20 Page 7 of 7 10/11/2010

Sample ID	SB-61a	SB-65 (9.5	1	SPE-11	SPE-12	SPE-13	SB-30A- 16	SB-30A- 20	SB-38A (10- 10.5)
Date Collected	7/18/2002	10) 6/2/03	(14.5-15) 6/2/03	10/30/03	10/30/03	10/30/03	5/9/03	5/9/03	6/2/03
Depth Collected (ft bgs)	15.0-15.5	9.5 - 10.0	14.5 - 15.0	7.5 - 8.0	8.0 - 8.5	7.5 - 8.0	15.5-16.0	19.5-20.0	10.0 - 10.5
Aroclor 1232	<.019	<0.020	<0.021	<.042	<.042	<.041	<.021	<.020	<.022
Aroclor 1242	<.019	<.020	<.021	<.042	<.042	<.041	<.021	<.020	<.022
Arocior 1248	<.019	0.03	<.021	0.36	0.15	0.17	<.021	<.020	1.55
Aroclor 1254	<.019	<.020	<.021	0.07	0.03	0.03	<.021	<.020	<.022
Arocior 1260	< 019	<.020	<.021	<.042	<.042	<.041	<.021	<.020	<.022



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SUMMARY OF ANALYTICAL DATA FOR OFF-SITE SOIL (mg/kg)

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

					Maximum De Concentra	
Analytical Parameter	Frequency Of Detection ¹	Range Detected ¹	Median Concentration ²	Arithmetic Mean Concentration ²	Location	Depth
		(mg/kg)	(mg/kg)	(mg/kg)		(ft)
<u>PCB</u>						
Aroclor 1232	0 / 74	ND - ND	ND	ND	NA NA	NA
Aroclor 1242	0 / 74	ND - ND	ND	ND	NA	NA
Aroclor 1248	16 / 74	0.027 - 2.36	0.19	0.090	SB-38A (10-10.5)	10.0 - 10.5
Aroclor 1254	12 / 74	0.015 - 2.51	0.12	0.084	SPÈ-13	7.5 - 8.0
Aroclor 1260	12 / 74	0.042 - 1.17	0.33	0.072	SB-38	4.0-4.5

Notes:

- 1. These statistics: only include analytical results for constituents detected above the sample reporting limit (RL).
- 2. These statistics include all detected constituent concentrations and one-half the RL for constituents not detected above the RL.

ND = Not Detected; NA = Not Available; ft = Feet.

DATA USEABILITY WORKSHEET Unimatic Manufacturing Company Medium: Soil

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Comment
ield Sampling
There were no apparent problems that could affect data usability.
Soil samples were collected from various depths and locations to represent exposure to soil by various identified receptors.
There are no field sampling issues that should affect the usability of the data and consequently the risk assessment results and conclusion.
ytical Techniques
Samples were analyzed using EPA methods 8015, 8260B, 8015B, 8082, 1312, 9040B, 7471A, and 624. Aqua Pro-Tech Laboratories (APL) is a New Jersey ELCP/NELAP certified laboratory (certification #07010).
The method detection and quantitation limit were generally less than the USEPA Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites.
There are no analytical technique issues that should affect the risk assessment.
Quality Objectives
Relative percent differences (RPDs) were calculated for each pair of duplicate samples. The RPDs for three duplciate pairs were less than 50%. The RPDs for the other four duplicate pairs were above 50% but below 131%. The elevated RPDs might be related to heterogeneity of the soil matrix. The samples with elevated RPDs were deemed estimated but usable and were qualified J.
Split samples were not collected. Surrogate recoveries, LCS/LCSD, and MD/MSD results were generally within the laboratory established limits, indicating generally acceptable accuracy.
Factors influencing representativeness include sample collection, selection of sampling locations representative of site conditions, and use of appropriate chemical methods for sample analyses. Sampling from locations representative of site conditions was achieved through implementation of the field sampling plan. Field duplicates were collected and analyzed in order to assess the influence of sample collection on representativeness. Field duplicates were collected for approximately 2% of field soil samples.
All data collected were considered usable and samples were collected in accordance with the sampling plan. The data set for the Site is internally consistent, and no significant
inconsistencies were identified in the data used to support the risk assessment.
The DQOs identified in the Sampling and Analysis Plan were satisfied. There are no DQO issues that should affect the risk assessment
lation and Interpretation
Data validation was not performed. The data were evaluated by reviewing the laboratory case narratives. The QC indicators (surrogate recovery, LCS/LCSD, MS/MSD, calibration, holding time etc.) were generally consistent with the laboratory established QC limits. The QC deficiencies will not impact the usability of the associated data.
None

File No. 75418.20 Page 2 of 6 2010

Unimatic Manufacturing Company Medium: Groundwater Activity Field Sampling Discuss sampling problems and field conditions that affect data usability. Groundwater samples were collected fro located onsite and offsite. There were no could affect data usability. Groundwater samples submitted for org filtered samples collected at different int using low flow purging and sampling ted are representative of receptor exposure Summarize the effect of field sampling issues on the risk assessment, if applicable. There are no field sampling issues that assessment.	Page 2 8/31/
Discuss sampling problems and field conditions that affect data usability. Are samples representative of receptor exposure for this medium? Summarize the effect of field sampling issues on the risk Groundwater samples were collected from located onsite and offsite. There were no could affect data usability. Groundwater samples submitted for org filtered samples collected at different intuiting low flow purging and sampling tect are representative of receptor exposure. There are no field sampling issues that sampling issues	0/3//
Discuss sampling problems and field conditions that affect data usability. Groundwater samples were collected fro located onsite and offsite. There were no could affect data usability. Groundwater samples submitted for org filtered samples collected at different int using low flow purging and sampling tec are representative of receptor exposure. Summarize the effect of field sampling issues on the risk.	
Discuss sampling problems and field conditions that affect data usability. I located onsite and offsite. There were no could affect data usability. Groundwater samples submitted for org filtered samples collected at different int using low flow purging and sampling tec are representative of receptor exposure. Summarize the effect of field sampling issues on the risk.	
Are samples representative of receptor exposure for this medium? filtered samples collected at different int using low flow purging and sampling ted are representative of receptor exposure Summarize the effect of field sampling issues on the risk filtered samples collected at different int using low flow purging and sampling ted are representative of receptor exposure. There are no field sampling issues that:	
, •	ntervals for vertical profiling echniques. These samples
	t should affect the risk
Analytical Techniques	
Were the analytical methods appropriate for quantitative risk assessment? Groundwater samples were analyzed fo using USEPA method 608, 624, 625, 82 Tech Laboratories (APL) is a New Jerse laboratory (certification #07010). Test A (TA) is a New Jersey-certified laboratory	8270C, 3510C. Aqua Prosey ELCP/NELAP certified t America Laboratories, Inc.
The quantitation limits for aroclors were USEPA Regional Screening Levels (RS adequate for evaluating risks via dermal is the exposure pathway identified for constituents adequate? Were detection limits adequate? Were detection limits adequate? The quantitation limits for aroclors were undermalled to constituents of the exposure pathway identified for constituents were either less than the UL evels (RSLs) for Chemical Contaminar would not impact the risk characterization detects.	RSLs) for tap water but were nal contact exposure, which construction wokrers for this i limits for the other USEPA Regional Screening ants at Superfund Sites or
Summarize the effect of analytical technique issues on the risk assessment, if applicable. There are no analytical technique issues assessment.	

Precision was evaluated by LCS/LCSD and MS/MSD analysis. Relative percent difference (%RPD) was generally within the laboratory established limits, indicating generally acceptable

precision.

Data Quality Objectives

No field duplicate samples were collected for groundwater samples.

Split samples were not collected. Surrogate recoveries, LCS/LCSD, and MD/MSD results were generally within the laboratory established limits, indicating generally acceptable accuracy.

Factors influencing representativeness include sample collection, selection of sampling locations representative of site conditions. and use of appropriate chemical methods for sample analyses. Sampling from locations representative of site conditions was achieved through implementation of the field sampling plan. Groundwater samples were collected from same wells at various time to reflect seasonal variation.

All data collected were considered usable and samples were collected in accordance with the sampling plan.

The data set for the Site is internally consistent, and no significant inconsistencies were identified in the data used to support the risk assessment.

Yes, the DQOs identified in the Sampling and Analysis Plan were satisfied

There are no DQO issues that should affect the risk assessment

Precision - How were duplicates handled?

Accuracy - How were split samples handled?

Representativeness - Indicate any problems associated with data representativeness

Completeness - Indicate any problems associated with data completeness

Comparability - Indicate any problems associated with data comparability.

Were the DQOs specified in the QAPP satisfied?

Summarize the effect of DQO issues on the risk assessment, if applicable.

DATA USEABILITY WORKSHEET Unimatic Manufacturing Company Medium: Groundwater File No. 75418.20 Page 3 of 6 8/31/2010

Activity Comment **Data Validation and Interpretation** Data validation was not performed. The data were evaluated by What are the data validation requirements? reviewing the laboratory case narratives. The QC indicators (surrogate recovery, LCS/LCSD, MS/MSD, calibration, holding What method or guidance was used to validate the data? time etc.)were generally consistent with the laboratory established QC limits. The QC deficiencies will not impact the Was the data validation method consistent with guidance? usability of the associated data. Discuss any discrepancies. Were all data qualifiers defined? Discuss those which were Which qualifiers represent useable data? Which qualifiers represent unusable data? How are tentatively identified compounds handled? Summarize the effect of data validation and interpretation issues on the risk assessment, if applicable Additional notes: None



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Field Duplicate Relative Percent Difference Results
Unimatic Manufacturing Corp
25 Sherwood Lane
Fairfield, New Jersey 07004
ISRA Case # E20010335

		Aroclor Concentration ¹ (mg/kg)	Relative % difference (RPD)
Sample ID	SPE-42A-14	99.7	
Duplicate Sample ID	SPE-42A-14D	248	85%
Sample ID	SB-85A-36	0.11	
Duplicate Sample ID	SB-10000	0.21	63%
Sample ID	SB-118-16	18.5	
Duplicate Sample ID	SB-200000	26.1	34%
Sample ID	SB-141-8	6.29	
Duplicate Sample ID	SB-3000	1.32	-131%
Sample ID	SB-100B-32C	0.18	
Duplicate Sample ID	SB-4000	0.67	115%
Sample ID	30-1-32	ND	
Duplicate Sample ID	SB-60000	ND	
Sample ID	21-1A-8	ND	NC
Duplicate Sample ID	SB-8000	ND I	NC

Notes:

- 1. Unless otherwise specified, the listed concentration is for Aroclor-1248 For SB-141-8 and SB-3000, the Aroclor-1242 concentrations are listed. No aroclors were detected in 30-1-32, SB-60000, 21-1A-8, or SB-8000.
- 2. Only detected aroclors were listed in this table and have RPDs calculated. All other aroclors were not detected in these duplicate samples.

ND = Not Detected; NC = Not Calculated.

0'-2' SURFACE SOIL OUTSIDE BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case# E20010335

> General Statistics 23

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16

QA: CL Date: 7/15/10

Number of Detected Data

General UCL Statistics for Data Sets with Non-Detects

User Selected Options

From File data.wst

Number of Valid Data

Full Precision OFF

Confidence Coefficient 95%

Number of Bootstrap Operations 2000

Arodor 1248

ramber of valid bald	20	Mainber of Detected Data	10
Number of Distinct Detected Data	16	Number of Non-Detect Data	7
		Percent Non-Detects	30.43%
•			
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.066	Minimum Detected	-2.718
Maximum Detected	2800	Maximum Detected	7.937
Mean of Detected	225.4	Mean of Detected	1.474
SD of Detected	703.6	SD of Detected	3.079
Minimum Non-Detect	0.004	Minimum Non-Detect	-5.521
Maximum Non-Detect	0.004	Maximum Non-Detect	-5.521
	UCL Statistics		
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.368	Shapiro Wilk Test Statistic	0.934
5% Shapiro Wilk Critical Value	0.887	5% Shapiro Wilk Critical Value	0.887
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
		Data appear Lognormal at 5% Significance Level Assuming Lognormal Distribution	
Data not Normal at 5% Significance Level Assuming Normal Distribution DL/2 Substitution Method			
Assuming Normal Distribution	156.8	Assuming Lognormal Distribution	-0.866
Assuming Normal Distribution DL/2 Substitution Method Mean		Assuming Lognormal Distribution DL/2 Substitution Method	-0.866 4.421
Assuming Normal Distribution DL/2 Substitution Method	156.8 590.6 368.2	Assuming Lognormal Distribution DL/2 Substitution Method Mean	
Assuming Normal Distribution DL/2 Substitution Method Mean SD	590.6	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD	4.421
Assuming Normal Distribution DL/2 Substitution Method Mean SD	590.6	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD	4.421
Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL	590.6 368.2	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL	4.421
Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method	590.6 368.2	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method	4.421 18377560
Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method	590.6 368.2	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method Mean in Log Scale	4.421 18377560 -0.86
Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method	590.6 368.2	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method Mean in Log Scale SD in Log Scale	4.421 18377560 -0.86 4.533
Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method	590.6 368.2	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method Mean in Log Scale SD in Log Scale Mean in Original Scale	4.421 18377560 -0.86 4.533 156.8
Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method	590.6 368.2	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method Mean in Log Scale SD in Log Scale Mean in Original Scale SD in Original Scale	4.421 18377560 -0.86 4.533 156.8 590.6
Assuming Normal Distribution DL/2 Substitution Method Mean SD 95% DL/2 (t) UCL Maximum Likelihood Estimate(MLE) Method	590.6 368.2	Assuming Lognormal Distribution DL/2 Substitution Method Mean SD 95% H-Stat (DL/2) UCL Log ROS Method Mean in Log Scale SD in Log Scale Mean in Original Scale SD in Original Scale 95% t UCL	4.421 18377560 -0.86 4.533 156.8 590.6 368.2

0'-2' SURFACE SOIL OUTSIDE BUILDING FOOTPRINT

File No. 75418.20 Page 2 of 2 9/2/2010

QA: CL Date: 7/15/10

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case# E20010335

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.195	Data appear Lognormal at 5% Significance Level	
Theta Star	1158		
nu star	6.23		
A-D Test Statistic	1.595	Nonparametric Statistics	
5% A-D Critical Value	0.883	•	
		Kaplan-Meier (KM) Method	450.0
K-S Test Statistic	0.883	Mean	156.8
5% K-S Critical Value	0.238	SD	577.6
Data not Gamma Distributed at 5% Significance Level		SE of Mean	124.4
		95% KM (t) UCL	370.4
Assuming Gamma Distribution		95% KM (z) UCL	361.4
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	368.2
Minimum	1E-12	95% KM (bootstrap t) UCL	5148
Maximum	2800	95% KM (BCA) UCL	399.7
Mean	156.8	95% KM (Percentile Bootstrap) UCL	395.8
Median	0.51	95% KM (Chebyshev) UCL	699
SD	590.6	97.5% KM (Chebyshev) UCL	933.6
k star	0.0883	99% KM (Chebyshev) UCL	1394
Theta star	1775		
Nu star	4.063	Potential UCLs to Use	
AppChi2	0.747	99% KM (Chebyshev) UCL	1394
95% Gamma Approximate UCL	853	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
95% Adjusted Gamma UCL	974.7		
· · · · · · · · · · · · · · · · · · ·			

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

For additional insight, the user may want to consult a statistician.

0'-6' SURFACE SOIL OUTSIDE BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case# E20010335 File No. 75418.20 Page 1 of 3 9/2/2010

QA: CL Date: 7/15/10

General UCL Statistics for Data Sets with Non-Detects

User Selected Options

From File data.wst
Full Precision OFF
Confidence Coefficient 95%
Number of Bootstrap Operations 2000

Aroclor 1248

	General Statist	tics	
Number of Valid Data	82	Number of Detected Data	64
Number of Distinct Detected Data	62	Number of Non-Detect Data	18
		Percent Non-Detects	21.95%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0286	Minimum Detected	-3.554
Maximum Detected	2800	Maximum Detected	7.937
Mean of Detected	72.77	Mean of Detected	1.163
SD of Detected	359.3	SD of Detected	2.382
Minimum Non-Detect	0.003	Minimum Non-Detect	-5.809
Maximum Non-Detect	0.02	Maximum Non-Detect	-3.912
Note: Data have multiple DLs - Use of KM Method is recomme	nded	Number treated as Non-Detect	18
For all methods (except KM, DL/2, and ROS Methods).		Number treated as Detected	64
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	21.95%
	UCL Statistic	~	
Normal Distribution Test with Detected Values Only	OCC SIBISIO	 Lognormal Distribution Test with Detected Values Only 	
Lilliefors Test Statistic	0.438	Lilliefors Test Statistic	0.0849
5% Lilliefors Critical Value	0.111	5% Lilliefors Critical Value	0.111
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DU2 Substitution Method		DL/2 Substitution Method	
Mean	56.8	Mean	-0.383
SD	318.3	SD	3.622
95% DL/2 (t) UCL	115.3	95% H-Stat (DL/2) UCL	4454
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-0.0355
,		SD in Log Scale	3.142
		Mean in Original Scale	56.8
		SD in Original Scale	318.3
		95% t UCL	115.3
		95% Percentile Bootstrap UCL	124.5
		95% BCA Bootstrap UCL	172.3

0'-6' SURFACE SOIL OUTSIDE BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane

Fairfield, New Jersey 07004 ISRA Case# E20010335 File No. 75418.20 Page 2 of 3 9/2/2010

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.23	Data appear Lognormal at 5% Significance Level	
Theta Star	316.4		
nu star	29.44		
A-D Test Statistic	6.046	Nonparametric Statistics	
5% A-D Critical Value	0.896	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.896	Mean	56.8
5% K-S Critical Value	0.123	SD	316.4
Data not Gamma Distributed at 5% Significance Level		SE of Mean	35.22
		95% KM (t) UCL	115.4
Assuming Gamma Distribution		95% KM (z) UCL	114.7
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	115.3
Minimum	1E-12	95% KM (bootstrap t) UCL	334.1
Maximum	2800	95% KM (BCA) UCL	128.5
Mean	56.8	95% KM (Percentile Bootstrap) UCL	125.3
Median	0.923	95% KM (Chebyshev) UCL	210.3
SD	318.3	97.5% KM (Chebyshev) UCL	276.7
k star	0.0944	99% KM (Chebyshev) UCL	407.2
Theta star	601.9		
Nu star	15.48	Potential UCLs to Use	
AppChi2	7.594	97.5% KM (Chebyshev) UCL	276.7
95% Gamma Approximate UCL	115.7		
95% Adjusted Gamma UCL	117.3		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

For additional insight, the user may want to consult a statistician.

Aroclor 1254

	General Statistics		
Number of Valid Data	82	Number of Detected Data	8
Number of Distinct Detected Data	8	Number of Non-Detect Data	74
		Percent Non-Detects	90.24%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.049	Minimum Detected	-3.016
Maximum Detected	24.89	Maximum Detected	3.215
Mean of Detected	5.105	Mean of Detected	-0.28
SD of Detected	8.634	SD of Detected	2.418
Minimum Non-Detect	0.008	Minimum Non-Detect	-4.828
Maximum Non-Detect	0.038	Maximum Non-Detect	-3.27
Note: Data have multiple DLs - Use of KM Method is recommend	ded	Number treated as Non-Detect	74
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	8
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	90.24%

Warning: There are only 8 Detected Values in this data

Note: It should be noted that even though bootstrap may be performed on this data set
the resulting calculations may not be reliable enough to draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

0'-6' SURFACE SOIL OUTSIDE BUILDING FOOTPRINT Unimatic Manufacturing Corp 25 Sherwood Lane

25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case# E20010335 File No. 75418.20 Page 3 of 3 9/2/2010

QA: CL Date: 7/15/10

	UCL Statis	tics	
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.678	Shapiro Wilk Test Statistic	0.905
5% Shapiro Wilk Critical Value	0.818	5% Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.503	Mean	-4.778
SD	2.96	SD	1.71
95% DL/2 (t) UCL	1.047	95% H-Stat (DL/2) UCL	0.0643
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-12.91
		SD in Log Scale	6.649
		Mean in Original Scale	0.499
		SD in Original Scale	2.961
		95% t UCL	1.043
		95% Percentile Bootstrap UCL	1.07
		95% BCA Bootstrap UCL	1.467
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.303	Data appear Gamma Distributed at 5% Significance Level	l
Theta Star	16.84		
nu star	4.851		
A-D Test Statistic	0.471	Nonparametric Statistics	
5% A-D Critical Value	0.788	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.788	Mean	0.542
5% K-S Critical Value	0.315	SD	2.935
Data appear Gamma Distributed at 5% Significance Leve	I	SE of Mean	0.347
		95% KM (t) UCL	1.119
Assuming Gamma Distribution		95% KM (z) UCL	1.112
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	1.067
Minimum	1E-12	95% KM (bootstrap t) UCL	2.464
Maximum	8467	95% KM (BCA) UCL	1.322
Mean	1706	95% KM (Percentile Bootstrap) UCL	1.156
Median	889.3	95% KM (Chebyshev) UCL	2.053
SD	2207	97.5% KM (Chebyshev) UCL	2.706
k star	0.242	99% KM (Chebyshev) UCL	3.99
Theta star	7059		
Tileta Stal			
Nu star	39.62	Potential UCLs to Use	
		Potential UCLs to Use 95% KM (t) UCL	1.119
Nu star	39.62		1.119

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

For additional insight, the user may want to consult a statistician.

Note: DL/2 is not a recommended method.

0'-15' SURFACE SOIL OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case# E20010335 File No. 75418.20 Page 1 of 3 9/2/2010

QA: CL Date: 7/15/10

General UCL Statistics for Data Sets with Non-Detects

User Selected Options

From File data.wst

Full Precision OFF

Confidence Coefficient 95%

Number of Bootstrap Operations 2000

Aroclor 1248

	General Statis	tion	
Number of Valid Data	207	Number of Detected Data	156
Number of Distinct Detected Data	150	Number of Non-Detect Data	51
Names of Planta Batched Bata	100	Percent Non-Detects	24.64%
		T GIGGIN NOTI DELECTO	24.0470
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0286	Minimum Detected	-3.554
Maximum Detected	2800	Maximum Detected	7.937
Mean of Detected	54.58	Mean of Detected	1.137
SD of Detected	253.7	SD of Detected	2.447
Minimum Non-Detect	0.003	Minimum Non-Detect	-5.809
Maximum Non-Detect	0.042	Maximum Non-Detect	-3.17
Note: Data have multiple DLs - Use of KM Method is recommend	ded	Number treated as Non-Detect	53
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	154
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	25.60%
•			20.0070
	UCL Statistic	s	
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.415	Lilliefors Test Statistic	0.0636
5% Lilliefors Critical Value	0.0709	5% Lilliefors Critical Value	0.0709
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	41.14	Mean	-0.495
SD	221.3	SD	3.587
95% DL/2 (t) UCL	66.55	95% H-Stat (DL/2) UCL	1345
Maximum Likelihood Estimate(MLE) Method	N/A	Łog ROS Method	
MLE yields a negative mean		Mean in Log Scale	-0.236
. •		SD in Log Scale	3.273
		Mean in Original Scale	41.14
		-	
		SD in Original Scale	221.3
		95% t UCL	66.56
		95% Percentile Bootstrap UCL	67.43
		95% BCA Bootstrap UCL	85.76

0'-15' SURFACE SOIL OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case# E20010335 File No. 75418.20 Page 2 of 3 9/2/2010

QA: CL Date: 7/15/10

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.248	Data appear Lognormal at 5% Significance Level	
Theta Star	220.2		
nu star	77.34		
A-D Test Statistic	10.28	Nonparametric Statistics	
5% A-D Critical Value	0.892	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.892	Mean	41.14
5% K-S Critical Value	0.0823	SD	220.8
Data not Gamma Distributed at 5% Significance Level		SE of Mean	15.4
		95% KM (t) UCL	66.58
Assuming Gamma Distribution		95% KM (z) UCL	66.47
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	66.56
Minimum	1E-12	95% KM (bootstrap t) UCL	110.6
Maximum	2800	95% KM (BCA) UCL	73.78
Mean	41.13	95% KM (Percentile Bootstrap) UCL	69.02
Median	0.911	95% KM (Chebyshev) UCL	108.3
SD	221.3	97.5% KM (Chebyshev) UCL	137.3
k star	0.0876	99% KM (Chebyshev) UCL	194.3
Theta star	469.6		
Nu star	36.26	Potential UCLs to Use	
AppChi2	23.48	97.5% KM (Chebyshev) UCL	137.3
95% Gamma Approximate UCL	63.53		
95% Adjusted Gamma UCL	63.72		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

For additional insight, the user may want to consult a statistician.

Aroclor 1254

	General Statistics		
Number of Valid Data	207	Number of Detected Data	15
Number of Distinct Detected Data	15	Number of Non-Detect Data	192
·		Percent Non-Detects	92.75%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.049	Minimum Detected	-3.016
Maximum Detected	28.38	Maximum Detected	3.346
Mean of Detected	5.471	Mean of Detected	0.146
SD of Detected	9.01	SD of Detected	2.11
Minimum Non-Detect	0.008	Minimum Non-Detect	-4.828
Maximum Non-Detect	0.042	Maximum Non-Detect	-3.17
Note: Data have multiple DLs - Use of KM Method is recommende	ed	Number treated as Non-Detect	192
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	15
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	92.75%

0'-15' SURFACE SOIL OUTSIDE BUILDING FOOTPRINT

File No. 75418.20 Page 3 of 3 **Unimatic Manufacturing Corp** 9/2/2010

QA: CL Date: 7/15/10

25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case# E20010335

UCL Statistics

	UCL Statis	tics	
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.643	Shapiro Wilk Test Statistic	0.943
5% Shapiro Wilk Critical Value	0.881	5% Shapiro Wilk Critical Value	0.881
Data not Normal at 5% Significance Level	•	Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.403	Mean	-4.761
SD	2.745	SD	1.553
95% DL/2 (t) UCL	0.718	95% H-Stat (DL/2) UCL	0.0381
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-11.2
		SD in Log Scale	5.598
		Mean in Original Scale	0.398
		SD in Original Scale	2.746
		95% t UCL	0.713
		95% Percentile Bootstrap UCL	0.732
		95% BCA Bootstrap UCL	0.843
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.381	Data appear Gamma Distributed at 5% Significance Level	
Theta Star	14.37		
nu star	11.42		
A-D Test Statistic	0.447	Nonparametric Statistics	
5% A-D Critical Value	0.81	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.81	Mean	0.442
5% K-S Critical Value	0.236	SD	2.733
Data appear Gamma Distributed at 5% Significance Level		SE of Mean	0.197
		95% KM (t) UCL	0.767
Assuming Gamma Distribution		95% KM (z) UCL	0.765
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.739
Minimum	1E-12	95% KM (bootstrap t) UCL	1.353
Maximum	1553	95% KM (BCA) UCL	0.904
Mean	388.3	95% KM (Percentile Bootstrap) UCL	0.805
Median	258.8	95% KM (Chebyshev) UCL	1.299
SD	430.9	97.5% KM (Chebyshev) UCL	1.67
k star	0.24	99% KM (Chebyshev) UCL	2.398
Theta star	1618		
Nu star	99.4	Potential UCLs to Use	
AppChi2	77.4	95% KM (t) UCL	0.767
95% Gamma Approximate UCL	498.7		
95% Adjusted Gamma UCL	499.6		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Malchle, and Lee (2006). For additional insight, the user may want to consult a statistician.

0'-15' SOIL OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case#E20010335 File No. 75418.20 Page 1 of 2 9/2/2010

95% BCA Bootstrap UCL

184.2

QA: CL Date: 7/15/10

General UCL Statistics for Data Sets with Non-Detects

User Selected Options

From File data.wst

Full Precision OFF

Confidence Coefficient 95%

Number of Bootstrap Operations 2000

Aroclor 1248

	General Statis	stics	
Number of Valid Data	95	Number of Detected Data	71
Number of Distinct Detected Data	71	Number of Non-Detect Data	24
		Percent Non-Detects	25.26%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0445	Minimum Detected	-3.112
Maximum Detected	2530	Maximum Detected	7.836
Mean of Detected	123.1	Mean of Detected	1.592
SD of Detected	408.8	SD of Detected	2.721
Minimum Non-Detect	0.004	Minimum Non-Detect	-5.521
Maximum Non-Detect	0.02	Maximum Non-Detect	-3.912
Note: Data have multiple DLs - Use of KM Method is recommer	nded	Number treated as Non-Detect	24
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	71
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	25.26%
	UCL Statist	ics	
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Onl	у
Lilliefors Test Statistic	0.397	Lilliefors Test Statistic	0.0744
5% Lilliefors Critical Value	0.105	5% Lilliefors Critical Value	0.105
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	92.01	Mean	-0.282
SD	356.9	SD	4.017
95% DL/2 (t) UCL	152.8	95% H-Stat (DL/2) UCL	30974
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	7.409	Mean in Log Scale	-0.000369
SD	423.1	SD in Log Scale	3.691
95% MLE (t) UCL	79.52	Mean in Original Scale	92.02
95% MLE (Tiku) UCL	80.02	SD in Original Scale	356.9
55.5.1122 (1116) 552	****	95% t UCL	152.8
		95% Percentile Bootstrap UCL	155.8
		- · · · · · · · · · · · · · · · · · · ·	

0'-15' SOIL OUTSIDE BUILDING FOOTPRINT
Unimatic Manufacturing Corp
25 Sherwood Lane

File No. 75418.20 Page 2 of 2 9/2/2010

QA: CL Date: 7/15/10

Fairfield, New Jersey 07004 ISRA Case#E20010335

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	0.224	Data appear Lognormal at 5% Significance Level	
Theta Star	548.9		
nu star	31.85		
A-D Test Statistic	5.047	Nonparametric Statistics	
5% A-D Critical Value	0.899	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.899	Mean	92.02
5% K-S Critical Value	0.117	SD	355
Data not Gamma Distributed at 5% Significance Level		SE of Mean	36.68
		95% KM (t) UCL	153
Assuming Gamma Distribution		95% KM (z) UCL	152.4
Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	152.8
Minimum	1E-12	95% KM (bootstrap t) UCL	236.1
Maximum	2530	95% KM (BCA) UCL	158.9
Mean	92.01	95% KM (Percentile Bootstrap) UCL	160.7
Median	1.02	95% KM (Chebyshev) UCL	251.9
SD	356.9	97.5% KM (Chebyshev) UCL	321.1
k star	0.0853	99% KM (Chebyshev) UCL	457
Theta star	1079		
Nu star	16.2	Potential UCLs to Use	
AppChi2	8.103	97.5% KM (Chebyshev) UCL	321.1
95% Gamma Approximate UCL	183.9		
95% Adjusted Gamma UCL	186		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

For additional insight, the user may want to consult a statistician.

TABLE VI-1 CALCULATION OF INTAKE AND RISK FROM THE INGESTION OF SOIL REASONABLE MAXIMUM EXPOSURE (RME) - SOIL WITHIN BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Equation for Intake (mg/kg-day) =

Variables (Assumptions for Each Receptor are Listed at the Bottom):

EPC = Exposure Point Concentration in Soil, mg/kg
IR = Ingestion Rate
CF = Conversion Factor
B = Bioavailability

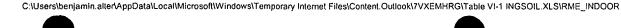
FI = Fraction Ingested

EF = Exposure Frequency ED = Exposure Duration

BW = Bodyweight AT = Averaging Time Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose

Equation for Cancer Risk = Chronic Dally Intake (Car) x Slope Factor

	Oral	Carc. Slope		Soll		Facility Worker			Construction Worker				Child Tresspasser				Emergency/Utility Worker			
Analyte	RfD	Oral	Bloavailablity	EPC	Inta	ake	Hazard	Cancer	Inta	ke	Hazard	Cancer	Intal	ke .	Hazard	Cancer	Inta	ke	Hazard	Cancer
]		(mg/k	g-day)	Quotlent	Risk	(mg/kg	-day)	Quotient	Risk	(mg/kg	-day)	Quotlent	Risk	(mg/kg	-day)	Quotient	Risk
	(mg/kg-day)	(mg/kg-day)-1	(unitless)	(mg/kg)	(Nc)	(Саг)			(Nc)	(Car)			(Nc)	(Car)	1		(Nc)	(Car)		
roclor-1232	2.00E-05	2.0E+00	1 1	ND												1				
rocior-1242	2.00E-05	2.0E+00	1 1	ND																
roclor-1248	2.00E-05	2.0E+00	1	321	3.14E-04	1.12E-04	2E+01	2E-04	1.04E-03	1.48E-05	5E+01	3E-05	5.4E-05	9.2E-06	3E+00	2E-05	4.1E-06	5.9E-08	2E-01	1E-07
Aroclor-1254	2.00E-05	2.0E+00	1	ND																
roclor-1260	2.00E-05	2.0E+00	1	ND								ł					}			
otal Hazard	Quotient and	d Cancer Risk:					2E+01	2E-04			5E+01	3E-05			3E+00	2E-05			2E-01	_1E-07
					Assu	nptions fo	r Facility W	orker	Assumpti	ons for Co	onstruction	n Worker	Assump	tions fo	r Child Tres	passer	Assumpti	ions for (Construction	n Worke
					CF =	1E-06	kg/mg	-	CF =	1E-06	kg/mg		CF =	1E-06	kg/mg		CF =	1E-06	kg/mg	
					8W =		kg		BW =		kg		BW =		kg		BW =		kg	
					IR =	100	mg/day		IR =	330	mg/day		IR =	100	mg/day		IR =	330	mg/day	
					Fl≃	1	unitless		FI =	1	unitless		FI=	1	unitless		FI=	1	unitless	
					EF =	250	days/year		EF =	250	days/year		EF =		days/year		EF =	1	days/year	
					ED =	25	years		ED =		years		ED =		years		ED =		years	
					AT (Nc) =	9,125	days		AT (Nc) =	365	days		AT (Nc) =	4,380	•		AT (Nc) =		days	
_					AT (Car) =	25,550	days		AT (Car) =	25,550	days		AT (Car) =	25,550	days		AT (Car) =	25,550	days	





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CALCULATION OF INTAKE AND RISK FROM THE INGESTION OF SOIL REASONABLE MAXIMUM EXPOSURE (RME) - SOIL WITHIN BUILDING FOOTPRINT Unimatic Manufacturing Corp

25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Equation for Intake (mg/kg-day) =

CS x IR x CF x FI x EF x ED

BW x AT

Variables (Assumptions for Each Receptor are Listed at the Bottom); EPC = Exposure Point Concentration in Soil, mg/kg EF = Expo

IR = Ingestion Rate

CF = Conversion Factor FI = Fraction Ingested

EF = Exposure Frequency

ED = Exposure Duration BW = Bodyweight

AT = Averaging Time

Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Total Lifetime Cancer Risk = Adult Contribution + Child Contribution

Analyte	Oral	Carc. Slope	Bloavailablity	Soll EPC (mg/kg)		Reside	nt (Adult)			Resident				
	RfD	Oral (mg/kg-day)-1			Inta	ake	Hazard Quotlent	Contribution	Inta	ake	Hazard	Contribution	Total	
						g-day)		to Lifetime	(mg/kg-day)		Quotient	to Lifetime	Lifetime	
	(mg/kg-day)				(Nc)	(Car)		Cancer Risk	(Nc)	(Car)		Cancer Risk	Cancer Ris	
Aroclor-1232	2.00E-05	2.00E+00	1.00E+00	ND					Ì					
Aroclor-1242	2.00E-05	2.00E+00	1.00E+00	ND	1									
Aroclor-1248	2.00E-05	2.00E+00	1.00E+00	3.21E+02	4.40E-04	1.51E-04	2E+01	3E-04	4.10E-03	3.52E-04	2E+02	7E-04	1E-03	
Aroclor-1254	2.00E-05	2.00E+00	1.00E+00	ND				İ	l			\	1	
Aroclor-1260	2.00E-05	2.00E+00	1.00E+00	ND										
Total Hazard Quotient and Cancer Risk:							2E+01	3E-04			2E+02	7E-04	1E-03	
					Assu	imptions fo	r Resident	(Adult)	Assumptions for Resident (Child)					
					CF =	1E-06	kg/mg		CF =	1E-06	kg/mg			
					8W =	70	kg		BW =	15	kg		1	
					IR =		mg/day		IR =		mg/day			
					F1 =		unitless		FI =		unitless		ł	
					EF =		days/year		EF =		days/year			
					ED =		years		ED =		years		ļ	
					AT (Nc) =	8,760	•		AT (Nc) =	2,190	•]	
					AT (Car) =	25,550	days		AT (Car) =	25,550	days		i	

TABLE VI-2 CALCULATION OF INTAKE AND RISK FROM THE INGESTION OF SOIL REASONABLE MAXIMUM EXPOSURE (RME) - SOIL OUTSIDE BUILDING FOOTPRINT Unimatic Manufacturing Corp

25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Equation for Intake (mg/kg-day) = EPC x R x CF x FI x EF x ED x B

BW x AT

Variables (Assumptions for Each Receptor are Listed at the Bottom):

EPC = Exposure Point Concentration in Soil, mg/kg

EF = Exposure Frequency

IR = Ingestion Rate

CF = Conversion Factor

B = Bioavallability

Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose

Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor

	Oral	Carc. Stope		EPC1	EPC2	EPC3	EPC4	: Fac	Ility Wor	ker - Curr	ent43400				Construction Worker								- Eme		Ity Worker		
Analyte	RfD	Oral	Bloavallability	Soll	Soll	Soil	Soll	Intake		Hazard Cance	Cancer	Intake		Hazard Cance		Intake		Hazard				Hazard		Intake		Hazard	
	ľ			Backfilli	0-2 (ft)	0-6 ft	0-15 ft	(mg/kg		Quotient	Risk	(mg/kg		Quotient	Risk	(mg/kg		Quotient	Risk			Quotient	Risk	(mg/kg		Quotient	Ris
	(mg/kg-day)	(mg/kg-day)-1	(unitless)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)		Ь.
roclor-1232	2.00E-05	2.0E+00	l 1	ND	םא	ND	ND																				1
	2.00E-05	2.0E+00	;	ND	ND	ND	3.8									1.2E-05	1.8E-07	6E-01	4E-07								l
	2.00E-05	2.0E+00	1 1	10.7	1394	277	137	1.0E-05	3.7E-06	5E-01	7E-06	1.4E-03	4.9E-04	7E+01	1E-03	4.4E-04			1	2.3E-04	4.0E-05	1E+01	8E-05	3.6E-06	5.1E-08	2E-01	1E4
	2.00E-05	2.0E+00	1 ;	ND	1.0	1.1	0.77	1.02.00	0.72 00	"-"	12.00	9.7E-07				2.5E-06		1E-01						1.4E-08			4E-
	2.00E-05		i ;	ND	0.59	0.59	0.59			[5.8E-07		3E-02		1.9E-06		1E-01						7.6E-09			2E+
	•		'	110	0.03	0.55	0.55		l			0.02-07	2.12-07	-			2.72.00				1	1	1	1.02.001	7.12.10		
otal Hazard Quotient and Cancer Risk:							5E-01	7E-06			7E+01	1E-03			2E+01	1E-05			1E+01				2E-01	1E-(
and the second s								A				ssumptions for Construction Work				Assumptions for Child Trespasser				Assumptions for							
Carlot State Control of the Control					Assumptions for Facility Worker (Current)								issumptions for construction work				Tresposser				Emergency/Utility Worker						
					EPC=	EPC1	rrenty	(Future) Office				EPC= EPC4			EPC= EPC2				EPC= EPC3								
	·							CF = 1E-06 kg/mg							CF = 1E-06 kg/mg			CF = 1E-06 kg/mg									
				BW = 70 kg - 3.7			8W = 70 kg							BW = 49 kg				BW = 70 kg									
	Made Pro-		IR =		mg/day ∌	1475	IR =		າຍ mg/day		IR =		າຍ mg/day		IR ≈		mg/day		IR =		າຍ mg/day						
	45.5				. :			F1 =	= 1 unitless			FI = 1 unitless						FI = 1 unitless						unitless			
٠٠.	معهارين							EF = 250 days/year			EF = 250 days/year									EF = 1 days/year			ď				
	٠. ١ -							ED =						years		ED =				ED = 12 yea			,		D= 1 years		
	Table 19.				, * * A			AT (Nc) =		days'		AT (Nc)				AT (Nc)		days		AT (Nc)	4,380			AT (Nc)		days	
	ie.							AT (Car)		days		AT (Car)						•		AT (Car)					25,550		



CALCULATION OF INTAKE AND RISK FROM THE INGESTION OF SOIL REASONABLE MAXIMUM EXPOSURE (RME) - SOIL OUTSIDE BUILDING FOOTPRINT Unimatic Manufacturing Corp

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335



Equation for Intake (mg/kg-day) = CS x IR x CF x FI x EF x ED
BW x AT

Wartables (Assumptions for Each Receptor are Listed at the Bottom):

EPC = Exposure Point Concentration in Soil, mg/kg
IR = Ingestion Rate
CF = Conversion Factor
BW = Bodyweight
FI = Fraction Ingested
AT = Averaging Time

Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
Equation for Total Lifetime Cancer Risk = Adult Contribution + Child Contribution

		EPC2	EPC3	EPC4		Resid	ent (Adult)	55		Reside	ent (Child)	254.5	Resident
Analyte	Bioavallability	Soll 0-2 (ft)	Soll 0-6 ft	Soil 0-15 ft	(mg/k	ake g-day)	Hazard Quotlent	Contribution to Lifetime	(mg/k	ake g-day)	Hazard Quotlent	I	Total Lifetime
	(unitless)	(mg/kg)	(mg/kg)	(mg/kg)	(Nc)	(Car)		Cancer Risk	(Nc)	(Car)		Cancer Risk	Cancer Risk
Aroclor-1232	1 1	ND	ND	ND	Ì				i				
Aroctor-1242	1	ND	ND	3.8									
Aroclor-1248	1	1394	277	137	1.91E-03	6.55E-04	1E+02	1E-03	1.78E-02	1.53E-03	9E+02	3E-03	4E-03
Aroclor-1254	1 1	0.987	1.1	0.77									
Aroclor-1260	1 1	0.59	0.59	0.59			ĺ	ļ			ļ.		
Total Hazard	Quotient and Cand	er Risk:					1E+02	1E-03			9E+02	3E-03	4E-03
					Ass	umptions (or Residen	it (Adult)	Assu	imptions fo	or Resider	nt (Child)	
					EPC=	EPC2			EPC=	EPC2			_
					CF =		kg/mg		CF =	1E-06	kg/mg		
					8W =		kg		BW =		kg		
					IR =		mg/day		IR ≖		mg/day		
					Ft =		unitless		FI =		unitless		
					EF = ED =		days/year years		EF = ED =		days/year years		
					AT (Nc) =	8,760			AT (Nc) =	2,190			
					AT (Car) =				AT (Car) =				

TABLE VI-3 CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO SOIL REASONABLE MAXIMUM EXPOSURE (RME) - SOIL WITHIN BUILDING FOOTPRINT Unimatic Manufacturing Corp

25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Equation for Intake (mg/kg-day) = EPC x CF x SA x AF x ABS x EV x EF x ED

BW x AT

Variables (Assumptions for Each Receptor are Listed at the Bottom);

EPC = Exposure Point Concentration in Soil, mg/kg

EV = Event Frequency

CF = Conversion Factor

SA = Surface Area Contact

ED = Exposure Pouration

BW = Bodyweight

ABS = Absorption Factor

AT = Averaging Time

	Dermal	Carc. Slope	Absorption	EPC		Facility \	Worker			Construction	on Worker			Child Tre	spassor				tility Work	
Analyte	RfD	Dermal	Factor*	Soil	Absorbe	d Dose	Hazard	Cancer	Absorbe	d Dose	Hazard	Cancer	Absorb	d Dose	Hazard	Cancer	Absorbe		Hazard	Cancer
					(mg/kg	ı-day)	Quotient	Risk	(mg/kg		Quotient	Risk		g-day)	Quotlent	Risk	(mg/kg		Quotient	Risk
	(mg/kg-day)	(mg/kg-day)-1	(unitless)	(mg/kg)	(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)	ļ		(Nc)	(Car)		
Aroclor-1232	2.00E-05	2.0E+00	1.4E-01	ĺ																
Aroclor-1242	2.00E-05	2.0E+00	1.4E-01	1								1								1
Aroclor-1248	2.00E-05	2.0E+00	1.4E-01	321	2.90E-04	1.04E-04	1E+01	2E-04	4.35E-04	6.22E-06	2E+01	1E-05	9.50E-05	1.63E-05	4.75E+00	3.26E-05	1.74E-06	2.49E-08	9E-02	5E-08
Aroclor-1254	2.00E-05	2.0E+00	1.4E-01				İ								[Į				ĺ
Aroclor-1260	2.00E-05	2.0E+00	1.4E-01										<u> </u>							L
Total Hazard	Quotient and	Cancer Risk:					1E+01	2E-04			2E+01	1E-05			5E+00	3E-05			9E-02	5E-08
					Assump	tions for I	ndustrial V	Norker	Assumpti	ons for Co	nstruction	Worker	Assum	ptions for	Child Trest	asser	Assumption	ns for Eme	rgency/Util	ity Worke
					CF =	1E-06	kg/mg		CF =	1E-06	kg/mg		CF =	1E-06	kg/mg		CF =	1E-06	kg/mg	
					BW =		kg		BW =		kg		BW =	49	kg		BW =	70	kg	
					SA =	3,300	cm ²		SA ≃	3,300	cm ²		SA =	6,300	cm ²		SA =	3,300	cm ²	
					AF =	0.2	mg/cm ² -e	vent	AF =	0.3	mg/cm ² -ev	ent	AF =	0.2	mg/cm2-ev	ent	AF =	0.3	mg/cm2-ev	ent
					EV =	1	event/day		EV =	1	event/day		EV =	1	event/day		EV =	1	event/day	
					EF =	250	days/year		EF =	250	days/year		EF ≂	30	days/year		EF =	1	days/year	
					ED =	25	years		ED =	1	years		ED =		years		ED =		years	
					AT (Nc) =	9,125			AT (Nc) =		days		AT (Nc) =	4,380	•		AT (Nc) =		days	
					AT (Car) =	25,550	days		AT (Car) =	25,550	days		AT (Car) =	25,550	days		AT (Car) =	25,550	days	

^{*} Absorption factors from Exhibit 3-4 of USEPA (2004) Supplemental Guidance for Dermal Risk Assessment, Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume I).





CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO SOIL REASONABLE MAXIMUM EXPOSURE (RME) - SOIL WITHIN BUILDING FOOTPRINT

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Unimatic Manufacturing Corp

25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Equation for Intake (mg/kg-day) =

EPC x CF x SA x AF x ABS x EV x EF x ED

BW x AT

Variables (Assumptions for Each Receptor are Listed at the Bottom): CS = Exposure Point Concentration in Soil

CF = Conversion Factor

SA = Surface Area Contact

AF = Adherence Factor ABS = Absorption Factor

EV = Event Frequency

EF = Exposure Frequency ED = Exposure Duration

BW = Bodyweight AT = Averaging Time Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose

Equation for Contribution to Lifetime Cancer Risk = Chronic Daily Intake (Car) x Slope Factor Equation for Total Lifetime Cancer Risk = Adult Contribution + Child Contribution

	Dermal		Absorption	EPC		Resident (A	Adult)		T	Resid	dent (Child)		Resident
Analyte	RfD	Dermal	Factor*	Soll	Intake		Hazard	Contribution	Int	ake	Hazard	Contribution	Total
	[, , , , , ,				(mg/kg-day		Quotient	to Lifetime	(mg/k	g-day)	Quotient	to Lifetime	Lifetime
	(mg/kg-day)	(mg/kg-day)-1	(unitless)	(mg/kg)	(Nc)	(Car)		Cancer Risk	(Nc)	(Car)	<u> </u>	Cancer Risk	Cancer Risk
Aroclor-1232	2.00E-05	2.0E+00	1.40E-01										
Aroclor-1242	2.00E-05								1				
Aroclor-1248	N	2.0E+00	1.40E-01						1				
Aroclor-1254	2.00E-05	2.0E+00	1.40E-01	3.21E+02	2.46E-04	8.42E-05	1E+01	2E-04	1.61E-03	1.38E-04	8E+01	3E-04	4E-04
-	2.00E-05	2.0E+00	1.40E-01		•					ł			
Aroclor-1260	2.00E-05	2.0E+00	1.40E-01							İ			
Total Hazard C	uotient and C	ancer Risk:					1E+01	2E-04			8E+01	3E-04	4E-04
					Assui	mptions for Re	sident (Adult)		· · · · ·	Assumptions	for Resident (
									1 .	·	`	,	
					CF =	1E-06			CF =	1E-06	kg/mg		
					BW =	70	kg		BW =	15	kg		
					SA =	5,700	cm²		SA =	2,800	cm²		
					AF =	0.07	mg/cm2-event		AF =	0.2	mg/cm2-event		
					EV =	1	event/day		EV =	1	event/day		
					EF ≃	350	days/year		EF =	350	days/year		
					ED =	24 8,760	years		ED =	6	years		
					AT (Nc) ≔		AT (Nc) =	2,190	days				
All and the second					AT (Car) =	25,550	days		AT (Car) =	25,550	days		

Absorption factors from Exhibit 3-4 of USEPA (2004) Supplemental Guidance for Dermal Risk Assessment, Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume I).

TABLE VI-4 CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO SOIL REASONABLE MAXIMUM EXPOSURE (RME) - SOIL OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Equation for Intake (mg/kg-day) =

EPC x CF x SA x AF x ABS x EV x EF x ED

BW x AT

Variables (Assumptions for Each Receptor are Listed at the Bottom): EPC = Exposure Point Concentration in Soil, mg/kg EV = EV

EV = Event Frequency

CF = Conversion Factor

EF = Exposure Frequency ED = Exposure Duration

SA = Surface Area Contact

BW = Bodyweight

AF = Adherence Factor

AT = Averaging Time

Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose

Equation for Cancer Risk = Chronic Dally Intake (Car) x Slope Factor

182 ± 4850	ption Factor				A1 = AVE	eraging III	ne																				
	Dermal	Carc. Slope	Absorption	EPC1	EPC2	EPC3	EPC4	an's Fac	lity Wor	két (Curr	ent) : 2	.∾⊊⊾Fac	llity.Wor	ker (Curre	nt) na a	es onC	onstructi	on Worker	ing(), ψ, α	. ie. ja . g.,	Child Tr	espasser	e a co	-j - Emé	rgency/U	tility Wor	ker
Analyte	RfD	Dermal	Factor*	Soil	Soll	Soll								Hazard				Hazard	Cancer	Absorb	ed Dose	Hazard	Cancer	Absorbe	d Dose	Hazard	Cano
		1		Backfill	0-2 ft	0-6 ft	0-15 ft	(mg/k	g-day)	Quotient	Risk	(mg/k	g-day)	Quotlent	Risk	(mg/k	g-day)	Quotient	Risk	(mg/k	g-day)	Quotient	Risk	(mg/kg	g-day)	Quotient	Risk
	(mg/kg-day	mg/kg-day)-	(unitless)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(Nc)	(Car)	<u> </u>		(Nc)	(Car)			(Nc)	(Car)			(Nc)	(Car)]		(Nc)	(Car)		<u> </u>
			1																1						1		i
roclor-123	2.00E-05	2.0E+00	1.4E-01	NO	ND	DИ	ND						ŀ	1							ŀ	1					1
roclor-124	2.00E-05	2.0E+00	1.4E-01	ND	ND	ND	3.8					ļ	ĺ	i		5.2E-06	7.4E-08	3E-01	1E-07		Į.						i
roctor-124	2.00E-05	2.0E+00	1.4E-01	10.7	1394	277	137	9.7E-06	3.5E-06	5E-01	7E-06	1.3E-03	4.5E-04	6E+01	9E-04	1.9E-04	2.7E-08	9E+00	5E-06	4.1E-04	7.1E-05	2.1E+01	1.4E-04	1.5E-06	2.1E-08	8E-02	4E-0
roclor-125	2.00E-05	2.0E+00	1.4E-01	ND	1.0	1.1	0.77			l	ŀ	9.0E-07	3.2E-07	5E-02	6E-07	1.0E-06	1.5E-08	5E-02	3E-08	3.0E-07	5.1E-08	1.5E-02	1.0E-07	6.0E-09	8.5E-11	3E-04	2E-10
Aroclor-126	2.00E-05	2.0E+00	1.4E-01	ND	0.59	0.59	0.59					5.3E-07	1.9E-07	3E-02	4E-07	8.0E-07	1.1E-08		2E-08	1.7E-07	3.0E-08	8.7E-03	6.0E-08	3.2E-09	4.6E-11	2E-04	9E-1
otal Hazar	d Ouetlant	and Cancer R	lek:							5F-01	7E-06			6E+01	9E-04			1E+01	6E-06			2E+01	1E-04	}	į	8E-02	4E-0
Otal Hazai	a diactient	and Cancer N	135.				-	Assum	otions fo	r facility	Worker	Assum	ptions fe			Assumpti	ons for Co			Assump	otions for	Child Tre		umptions	for Eme		
	,																						-				
								EPC=	EPC1			EPC=	EPC2			EPC =	EPC4			EPC =	EPC2			EPC =	EPC3		
								CF =	1E-06	kg/mg		CF =	1E-06	kg/mg		CF =	1E-06	kg/mg		CF =	1E-06	kg/mg		CF =	1E-06		
	2.							BW =	70	kg		BW =	70	kg 💮		BW ≠	70	kg		BW =	49	kg		8W =	70	kg _	
								SA =	3,300	cm²		SA =	3,300	cm²		SA =	3,300	cm ²		SA =	6,300	cm²		SA =	3,300	cm²	
								AF ⇒	0.2	mg/cm²-	event	AF =	0.2	mg/cm²-e	vent	AF =	0.3	mg/cm²-e	vent	AF =	0.2	: mg/cm²-e	vent	AF =	0.3	mg/cm²-e	ent
	:						•	EV =	1	event/da	y .	EV =	1	event/day	,	EV =	1	event/day		EV =	1	event/day	<i>i</i> ·	EV ≃	1	event/day	y
	•					:		EF ≃	250	days/yea	ar · · ·	EF =	250	days/yea	•	EF =	250	days/year		EF =	30	days/year	7	EF =	1	days/year	r
	· · · ·						••	ED =	25	years	:	ED ≈		years		ED=		years		ED =		years		ED =		years	
	-							AT (Nc)	9,125	days		AT (Nc)	9,125	days		AT (Nc) =		days		AT (Nc) =		days .		AT (Nc) =		days	
	1						,	AT (Car)	25,550				25,550			AT (Car)				AT (Car)	25,550	days		AT (Car) :	25,550	days	

^{*} Absorption factors from Exhibit 3-4 of USEPA (2004) Supplemental Guidance for Dermal Risk Assessment, Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume I).



CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO SOIL REASONABLE MAXIMUM EXPOSURE (RME) - SOIL OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335 Page 2 of 2 9/2/2010

Equation for Intake (mg/kg-day) = <u>EPC x CF x SA x AF x ABS x EV x EF x ED</u> BW x AT

Variables (Assumptions for Each Receptor are Listed at the Bottom):
CS = Exposure Point Concentration in Soil

CF = Conversion Factor SA = Surface Area Contact AF = Adherence Factor

ABS = Absorption Factor

tom);

EV = Event Frequency

EF = Exposure Frequency

ED = Exposure Duration

BW = Bodyweight

AT = Averaging Time

Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose

Equation for Contribution to Lifetime Cancer Risk = Chronic Daily Intake (Car) x Slope Fact-Equation for Total Lifetime Cancer Risk = Adult Contribution + Child Contribution

	Dermai	Carc. Slope	EPC2	ty allegations	Resid	dent (Adult)		:	Resid	dent (Child)		Resident
Analyte	RfD	Dermal	Soll	Int	ake	Hazard	Contribution	Int	ake	Hazard	Contribution	Total
	1		0-2 ft		g-day)	Quotlent	to Lifetime	(mg/k	g-day)	Quotient	to Lifetime	Lifetime
 -	(mg/kg-day)	(mg/kg-day)-1	(mg/kg)	(Nc)	(Car)		Cancer Risk	(Nc)	(Car)		Cancer Risk	Cancer Risk
Aroclor-1232	2.00E-05	2.0E+00	ND		l							
Aroclor-1242	2.00E-05	2.0E+00	ND	1								
Aroclor-1248	2.00E-05	2.0E+00	1394	1.1E-03	3.7E-04	5E+01	7E-04	7.0E-03	6.0E-04	3E+02	1E-03	2E-03
Aroclor-1254	2.00E-05	2.0E+00	1.0					1.02.00	0.02-0-	32.02	12-03	1 22-05
Aroclor-1260	2.00E-05	2.0E+00	0.59	<u></u>								
rotal Hazard C	luotlent and Car	ncer Risk:				5E+01	7E-04			3E+02	1E-03	2E-03
					Assumptions	for Resident (Adult)		Assumptions	for Resident (
				EPC =	EPC2			EPC =	EPC2			
				CF =		kg/mg		CF =	1E-06	kg/mg		
				BW =		kg		BW ≈		kg		
				SA =	5,700			SA =	2,800	cm²		
				AF =	0.07	mg/cm ² -event		AF =	0.2	mg/cm ² -event		
				EV =		event/day		EV =	1	event/day		
				EF =		days/year		EF≂	350	days/year		
				ED =		years		ED =	6	years		
				AT (Nc) =	8,760			AT (Nc) =	2,190	days		
		-4 of LISEDA (2004)		AT (Car) =	25,550	days		AT (Car) =	25,550			

Absorption factors from Exhibit 3-4 of USEPA (2004) Supplemental Guidance for Dermal Risk Assessment, Part E of Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (Volume I).

TABLE VI-5

File No. 75418.20 Page 1 of 1 10/11/2010

CALCULATION OF INTAKE AND RISK FROM INHALATION OF DUST IN AMBIENT AIR FROM SOIL WITHIN BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Equation for Intake (mg/kg-day) =	EPC x IR x EF x ED	
	BW x AT	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Recept	or are Listed at the Bottom):	
EPC = EPC in Air, mg/m3	ED = Exposure Duration	Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
IR = Inhalation Rate	BW = Bodyweight	
EF = Exposure Frequency	AT = Averaging Time	

	Inhalation	Carc. Slope	Air EPC from		Construction	Worker	
Analyte	RfC	Inhalation	Soils Within Building Footprint	Intak (mg/kg/		Hazard Quotient	Cancer Risk
	(mg/kg-day)	(mg/kg-day)-1	(mg/m3)	(Nc)	(Car)		
Aroclor 1232	2.00E-05	2.0E+00					
Aroclor 1242	2.00E-05	2.0E+00			i		
Aroclor 1248	2.00E-05	2.0E+00	6.2E-05	1.21E-05	1.73E-07	6E-01	3E-07
Aroclor 1254	2.00E-05	2.0E+00					
Aroclor 1260	2.00E-05	2.0E+00					
Total Hazard Quotient and	d Cancer Risk:	<u> </u>		<u> </u>		6E-01	3E-07
Total Hazara Quotion an	d danosi (taski	.		Assum	ptions for Cons	truction Work	er
				BW =	70	kg	
				IR =	20	m3/day	
				EF =	250	days/year	
				ED =	1	year	
				AT (Nc) =		days	
				AT (Car) =	25,550	days	



TABLE VI-6

File No. 75418.20 Page 1 of 1 10/11/2010

CALCULATION OF INTAKE AND RISK FROM INHALATION OF DUST IN AMBIENT AIR FROM SOIL OUTSIDE BUILDING FOOTPRINT

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 ISRA Case #E20010335

Equation for Intake (mg/kg-day) =	EPC x IR x EF x ED	
	BW x AT	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
Variables (Assumptions for Each Recer	otor are Listed at the Bottom);	, , , , , , , , , , , , , , , , , , , ,
EPC = EPC in Air, mg/m3	ED = Exposure Duration	Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
IR = Inhalation Rate	BW = Bodyweight	The same and the same and the same as a same a
EF = Exposure Frequency	AT = Averaging Time	

-	Inhalation	Carc. Slope	Air EPC from		Construc	tion Worker	
Analyte	RfD	Inhalation	Soils	Intal	(e	Hazard	Cancer
		.	Outside Building Footprint	(mg/kg	-day)	Quotient	Risk
	(mg/kg-day)	(mg/kg-day)-1	(mg/m3)	(Nc)	(Car)		
Aroclor 1232	2.00E-05	2.0E+00					
Aroclor 1242	2.00E-05	2.0E+00	7.3E-07	1.43E-07	2.04E-09	7E-03	4E-09
Aroclor 1248	2.00E-05	2.0E+00	2.6E-05	5.09E-06	7.27E-08	3E-01	1E-07
Aroclor 1254	2.00E-05	2.0E+00	1.5E-07	2.94E-08	4.19E-10	1E-03	8E-10
Aroclor 1260	2.00E-05	2.0E+00	1.1E-07	2.22E-08	3.17E-10	1E-03	6E-10
	!						
Total Hazard Quotlent and	d Cancer Risk:					3E-01	2E-07
				Α	ssumptions for	Construction Wor	ker
				BW =	70 (κα	
				IR =		n3/day	
				EF =		days/year	
				ED =		year	
				AT (Nc) =	365	days	
				AT (Car) =	25,550	days	

TABLE VI-7 CALCULATION OF ABSORBED DOSE AND RISK FROM DERMAL CONTACT TO GROUNDWATER REASONABLE MAXIMUM EXPOSURE (RME) Unimatic Menufacturing Corp 25 Sherwood Lane Fairfield, New Jarsey 07004 ISRA Case #E20010335

Equation for Dermal (mg/kg-day) =		Equation for Absorbed Dose	per Event (DA):	Kp = Permeability Coefficient, cm/h CF = Co	omismiss Early 10 ⁻¹ L/cm ³	
	BW x AT	For inorganics: D		EPC = EPC in Groundwater, mg/L	Oliversion racioi, lo Lon	i
Variables (Assumptions for Each Recento	r are Listed at the Bottom);	For organica: If t _{event} <= 1*, t	then: DA _{event} = 2 FA x K _p x EPC ((8 1 _{ext}		If $B > 0.6$, then $t' = 6\pi_{a-1}(b - \sqrt{b^2 - c^2})$	Equation for Hazard Quotient = Chronic Daily Intake (Nc)/Reference Dose
DA = Absorbed Dose per Event	ED = Exposure Duration	if l _{evert} > t*, th	nen; DA _{ment} = FA x K _p x EPC [(t _{enent} / 1	+ B) + 2 τ_{event} ((1 + 3 B + 3 B ²) / (1 + B) ²)]	$b = \frac{2(1-a)^2}{a} - C$	Equation for Cancer Risk = Chronic Daily Intake (Car) x Slope Factor
SA = Surface Area Contact EF = Exposure Frequency EV = Event Frequency	BW = Bodyweight AT = Averaging Time	relative to its permeability of	he permeability coefficient of a compou coefficient across the viable epidermis (B = Kp (Mol, Wt.) ^{1/2} / 2.6	ve) (dimensionless)	$c = \frac{1 + 3B + 3B^2}{3(1 + B)}$	
21 Eroni radama,		FA = Fraction absorbed water	er (dimensionless)	t* = 2.4 x B	r = 0.105×10 ⁽²⁰⁰³⁶⁶⁹⁾	
		Tevent = Lag Time	e per eveni(hr/eveni)	t' =Time to reach steady-stat(hr)		

	5	Care Class	Permeability		Fraction	· · · · · ·		EPC	Absorbed	Facil	ity Worker			Constructi	on Worker		Child	Trespasser		- 8	mergency/	Utility Work	er
	Dermal RfD	Dermal	Coefficient	Toward	Absorbed	l a l	ı.	Ground	Dose/Event	Intake	Hazard	Cancer	Inte	rke .	Hazard	Cancer	Intake	Hazard	Cancer	int	ake	Hazard	Cancer
Analyte	KID	Dernia	Ko	'event	Water		•	Water		(mg/kg-day)	Quotient	Risk	(mg/kg	g⊸day)	Quotient	Risk	(mg/kg-day)	Quotient	Risk	(mg/k	g-day)	Quotient	Risk
	(mg/kg-day)	(mg/kg-day)-1		(hr/event)			(hour)	(mg/L)	(mg-cm²/event)		<u></u>	L	(Nc)	(Car)		ļ	(Nc) (Car)	L	l	(Nc)	(Car)		
roctor 1242	2.E-05	2E+00	2.8E-02	3.0	0.5	1.8E-01	7.3	0.014	6.7E-07				6.57E-06	9.38E-08	3E-01	2E-07				6.57E-08		1 1	2E-09 5E-07
troctor 1248	2.E-05	2E+00	4.8E-01	4.3	0.5	3.1E+00	16	0.0019	1.8E-06				1.79E-05	2.56E-07	9E-01	5E-07	[1.79E-07	2.365-07	9E-03	25-01
		10	l	J			L	L	<u></u>						1E+00	7E-07		1				1E-02	5E-07
otal Hazard	Quotient an	d Cancer Risk									1		Assump	tions for Co	nstruction	Worker				Assumption	ons for Em	ergency/Uti	lity Worl
													BW =	70	kg					BW =	70) kg	
													SA =	2,490	cm2					SA =	2,490	cm2	
													EV≖	-	event/day					EV=		event/day	
													EF =		days/year					EF =		days/year	
													I							ED =		years	
													ED =		years		1			l.		hr/event	
										l			parand a		hr/event		1			revers .			
										l			AT (Nc) =	365	days					AT (Nc) =		days	
										ľ			AT (Car) =	25,550	days					AT (Car) =	25,550	days	

FA based on the value for PCB-hexachlorobiphenyl.

Kp calculated using Equation 3.8 in USEPA (2004) and MW and Kow values from Hazardous Substances Data Bank.



TABLE VII-1

File No. 75418.20 Page 1 of 2 12/21/2010

CALCULATION OF RISK-BASED AROCLOR-1248 CONCENTRATION IN SOIL FOR CHILD TRESPASSER/VISITOR

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004

Scenario Timeframe: Current/Future

Medium: Soil

Exposure Medium: Soil Exposure Point: On-Site

Receptor Population: Child Trespasser/Visitor Receptor Age: Child (6-18 yr)

EXPOSURE ROUTE	PARAMETER CODE	PARAMETER DEFINITION	UNITS	RME VALUE	RME RATIONALE	RME REFERENCE
Dermal Contact of Soil	EPC BW IR FI EF ED CF AT(Nc) AT(Cair) EPC BW SA AF ABS EV EF ED CF AT(Nc) AT(Cair)	Soil EPC Body Weight Ingestion Rate Fraction Ingested Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car Soil EPC Body Weight Skin Contact Surface Area Soil/Skin Adherence Factor Dermal Absorption Fraction Event Frequency Exposure Frequency Exposure Duration Conversion Factor Averaging Time - Nc Averaging Time - Car	mg/kg kg mg/day unitless days/yr year kg/mg days days mg/kg kg cm² mg/cm²-event unitless events/day days/yr year kg/mg days	49 100 1 30 12 1E-6 4,380 25,550 49 6,300 0.2 0.14 1 30 12 1E-6 4,380 25,550	Mean body weight for youth (ages 6-18yr). Default soil ingestion rate for youth. Assuming 100% ingestion from site. 1 day per week, 30 weeks per year. Exposure duration from 6 to 18. 12 years. 70 years, default value for human life span. Mean body weight for youth (ages 6-18yr). Mean surface area of head, hands, forearms, lower legs, and feet. Default value for child. Chemical-specific. Default value for residential child. 1 day/week, 30 weeks per year. Exposure duration from 6 to 18. 12 years. 70 years, default value for human life span.	NHANES 1999-2006 USEPA, 1997. BPJ. USEPA, 2002. NHANES 1999-2006 USEPA, 1997. USEPA, 2004. USEPA, 2004. USEPA, 2004. USEPA, 2002. USEPA, 2002.
Target Risk Limits	Non-Cancer Cancer	Non-Cancer Risk Limit Cancer Target Risk Limit	Unitless Unitless	1 1x10 ⁻⁴	USEPA established non-cancer hazard limit. The upper limit of the USEPA established target cancer risk range.	USEPA, 1989 USEPA, 1989
Aroclor-1248 Toxicity Values	RſD CSF	Oral Reference Dose Cancer Slope Factor	2E-05 2	mg/kg-day (mg/kg-day) 1	psings.	IRIS, 2010 IRIS, 2010

Notes:

RME = Reasonable Maximum Exposure

NHANES = National Health and Nutrition Examination Survey

QA: CL Date: 12/21/10

TABLE VII-1

CALCULATION OF RISK-BASED AROCLOR-1248 CONCENTRATION IN SOIL FOR CHILD TRESPASSER/VISITOR

Unimatic Manufacturing Corp 25 Sherwood Lane Fairfield, New Jersey 07004 Page 2 of 2 12/21/2010

File No. 75418.20

Risk-Based Concentration (RBC) Calculation Equation:

	Non-cancer F	Risk Limit x RfD x BW x AT _{Nc}	
RBC _{non-cancer} =	(IRxFI+SA)	(AFxABSxEV)xEFxEDxCF	
	Cancer	Risk Limit x BWxAT _{Cair}	
RBC _{cancer} =	(IRxFI+SAxAF	xABSxEV)xEFxEDxCFxCSF	
RBC _{non-cancer} =	43	mg/kg	
RBC _{cancer} =	629	mg/kg	
RBC=	43	mg/kg	(RBC was adopted to be the lower of the RBC _{non-cancer} and RBC _{cancer} .)

Source References:

- · USEPA, 2010: Integrated Risk Information System. On-line database. http://www.epa.gov/iris/
- · USEPA, 2002: Supplemental Guidance For Developing Soil Screening Levels For Superfund Sites. December.
- USEPA, 2004: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Final.
- · USEPA, 1997: Exposure Factors Handbook.
- USEPA, 1989: Risk Assessment Guidance for Superfund.
- · BPJ: Best Professional Judgment

Attachment VIII: Deed Notice Description

The deed notice restricted area is the entire 1.23-acre property known as 25 Sherwood Lane, Fairfield, Essex County, New Jersey. It is also known as Block 2302, Lot 8. The metes and bounds description of the property is as follows:

Beginning at the point in the North side of Sherwood Lane, point being distant 550 feet Easterly from the East side of Passaic Avenue; said BEGINNING point also being the Southeast corner of land conveyed to Industry Publications, Inc., thence (1) running along the East line of Industry Publication, Inc., North 22 degrees, 49 minutes, 40 seconds East 322.95 feet to Jersey City Water Company right-of-way; thence (2) running along the South line of Jersey City Water Company right-of-way North 89 degrees, 14 minutes East 163.60 feet to a point; thence (3) South 22 degrees, 49 minutes, 40 seconds West 392.99 feet, to the North side of Sherwood Lane; thence (4) running along the North line of Sherwood Lane, North 65 degrees, 26 minutes West 150 feet to the point and place of BEGINNING.

The property contains a one-story building, associated driveways and loading/unloading areas, and a landscaped front lawn. The property is accessible to employees and the general public.

The objective of the deed notice restrictions is to limit any direct contact with the contaminated soil. The Site building, which has a one-foot thick concrete floor, will function as the engineering control for that portion of the property. The exterior portion of the property, with the exception of the landscaped front lawn, will be paved with asphalt. The base course of the pavement will be of four-inch compacted thickness and the surface course of the pavement will be of two-inch compacted thickness. The landscaped front area of the property, where there is no contamination above non-residential standards, will be managed under an institutional control only. The attached Figure shows the proposed locations of the engineering controls.

Biennial monitoring and inspection of the capping will be conducted to insure that the pavement does not exhibit cracks or fissures, the concrete floor remains intact, the soil underlying the front lawn has not been disturbed, and the land use remains consistent with the deed notice restrictions. The engineered cap shall remain intact in order to eliminate the possibility of exposure to the soil contamination. If the cap is disturbed, it must be restored with the appropriate materials. The biennial certification monitoring report will contain a certification of the continuing about the protectiveness of the capping and the land use at the site.



Benjamin Alter

From:

Haklar.James@epamail.epa.gov

ient:

Wednesday, December 22, 2010 4:16 PM

o:

Friedman, William J.

Cc:

Benjamin Alter; Olsen.Marian@epamail.epa.gov; Kraft.Daniel@epamail.epa.gov

Subject:

Re: Unimatic's Revisions to Human Health Risk Assessment, including additional tables and

figures

Attachments:

ATT00001.png

Bill,

Based on our review, we have no further questions or comments with the risk assessment for this site. We await your submittal of a formal application for a risk-based disposal approval.

Sincerely yours,

Jim

James S. Haklar, Ph.D., P.E. Sr. PCB Disposal Specialist Division of Enforcement and Compliance Assistance

(732) 906-6817

From:

"Friedman, William J." <wfriedman@bracheichler.com>

James Haklar/R2/USEPA/US@EPA

"Benjamin Alter" <benjamin.alter@gza.com>

12/22/2010 12:31 PM

Date: Subject:

Unimatic's Revisions to Human Health Risk Assessment, including additional tables and figures

Jim.

When we spoke last week during our conference call, we promised to get revised and additional documentation to Marian Olsen by early this week, so that she could review and consult with you, and if all was in order, you would issue a brief e-mail indicating informal approval/acceptability before you left for Florida. We sent the revised Human Health Risk Assessment (only changes are to Section 5.3) and various attachments to Marian yesterday via e-mail. Because she is not in the office this week, we were not able to speak directly with her about this, but hopefully she has opened the e-mail and begun the necessary review, and can discuss her review with you today, so that you can issue the e-mail that we discussed.

I will appreciate a brief e-mail indicating that the process is proceeding as we outlined. Of course, we would be happy to answer any questions and provide additional information if ecessary. Thanks for your help and cooperation, and I appreciate your taking a break from your busy holiday season to deal with this.

APPENDIX K



GZA SITE-SPECIFIC HEALTH, SAFETY & ACCIDENT PREVENTION PLAN

GZA SITE-SPECIFIC	HEALIT	1, SAFETT & AC	CIDE	ENT PREVENTION PLAN	
1. CLIENT/SITE/PROJECT INFORMATION					
Client: Unimatic Manufacturing	Co., Inc.				
Site Address: 25 Sherwood Lane	, Fairfield, NJ				
Site Description: Single-story m	anufacturing bu	ilding and surrounding parki	ng/drive	eway areas	
Job/Project #: 12.0075418.20Estimated Start Date: March 2011Estimated Finish Date: April 2011			Estimated Finish Date: April 2011		
	2.	EMERGENCY INFOR	MATIC	DN .	
Hospital Name & Address: Chilton Memorial Hospital 97 West Parkway, Pompton Plains, NJ 07444-1696 Hospital #: (973) 831-5000				Hospital #: (973) 831-5000	
Directions and Street Map of Route	to Nearest Hospit	al Attached: X Yes (required	l)		
Fire #: 911	Ambulance	e#: 911		Police #: 911	
Other Emergency Contact: Benjam	in Alter		Phone	#:(973) 774-3309	
Location of Nearest Phone: (973) 8	08-2022				
Site Specific Emergency Preparedne	ss/Response Proc	edures/Concerns:			
		3. SUB-SURFACE W	ORK		
IMPORTANT! For subsurface wo underground explorations.	rk, verify that ur			s been completed before proceeding with	
	Have Necessary Underground Utility Notifications				
Specify Clearance Date & Time, D		ce I.D. #, And Other Relevan	t Inform	nation: To be determined	
		.			
		4. SCOPE OF WOI	₹K		
Any CONFINED SPACE entry?	YES	NO Any INDOC)R field	work? YES NO	
General project description, and phato which this H&S Plan applies.	Remediation of soils on the adjoining property located at 21 Sherwood Lane. Asphalt paving on the exterior of 25 Sherwood lane				
Specific Tasks Performed by GZA:	Air monitoring, directing contractor on where to excavate, collection of post-excavation soil samples.				
Concurrent Tasks to be Performed by GZA Subcontractors (List Subcontractors by Name):		Excavation and backfilling (contractor name to be determined). Transportation and disposal of contaminated soils (contractor to be determined). Asphalt paving (contractor TBD)		ř	
Concurrent Tasks to be Performed by Others:	у	N/A			
determining the adequacy and appli is responsible for all matters relatin	cability of the int g to the H&S of	formation herein to its own ac its personnel and equipment i	tivities o	only. Each subcontractor is responsible for on site. Each subcontractor engaged by GZA mance of its work, as well as obligations for ct to GZA's review, recommendations, and	

5. DOCUMENTATION TO BE COMPLETED

- Site Health and Safety Briefing/Site Safety Orientation Record (Attachment A) must be completed prior to the initiation of onsite activities and at least once per week thereafter until the completion of GZA on-site activities. For some projects, daily safety briefings may be appropriate.
- Site Inspection Log (Attachment B) must be completed at the initiation of on-site activities and at least once per week thereafter until the completion of GZA on-site activities.
- Incident Analysis Form (Attachment C) must be completed for each accident, injury, incident, near miss.

contractual requirements pertaining to H&S.

6. SITE-SI		EW OF H&S HAZARDS/ SAFETY MEASURES		
For the hazards identified by		Hazard Assessment, Section 11) ent checklist, describe the specific nature of that hazard as it relates to		
vour jobsite, and describe the	safety measures to b	e implemented for worker protection. Use brief abstract statements or		
more detailed narrative as may				
ON-SITE HAZARDS:		SAFETY MEASURES:		
Pedestrians/General Public	· · · · · · · · · · · · · · · · · · ·	Use of traffic cones, caution tape; Wearing traffic vest		
Heat stress		Drinking water and frequent rest		
Drill rig		Wearing of steel-toed boots and hardhat		
Utility-Related Hazards		Completion of utility markout		
Noise		Use of hearing protection		
Chemical hazard		Wearing of gloves; use of decon buckets, brushes, towels and plastic bags		
	7. HEALTH AN	D SAFETY EQUIPMENT AND CONTROLS		
AIR MONITORING INSTRU	MENTS (ensure instru	ments are PERSONAL PROTECTIVE EQUIPMENT		
calibrated)		Respirator Type:		
PID Type: Lamp Energy	y: 10.6 e V	Resp-Cartridge Type:		
FID Type:		Hardhat		
Carbon Monoxide Meter		Outer Gloves Type:		
Hydrogen Sulfide Meter		Inner Gloves Type: nitrile		
☐ O₂/LEL Meter		Steel-toed boots/shoes Steel-toed boots/shoes		
Particulate (Dust) Meter		Coveralls Type:		
Calibration Gas Type		Outer Boots Type:		
Others:		Eye Protection with side shields		
_		Face Shield		
Discuss/Clarify, as Appropriat	:e:			
		☐ Traffic Vest		
		Personal Flotation Device (PFD)		
OTHER H&S EQUIPMENT &	& GEAR	Fire Retardant Clothing		
Fire Extinguisher		EH (Electrical Hazard) Rated Boots, Gloves, etc.		
		Noise/Hearing Protection		
Traffic Cones or Stanchions		Others:		
Warning Signs or Placards				
Decon Buckets, Brushes, etc.	, •	Discuss/Clarify, as Appropriate:		
Portable Ground Fault Interre		Level D PPE: No respiratory protective equipment,		
Lockout/Tagout Equipment	,	minimal skin protection (coveralls, steel-toed boots,		
Ventilation Equipment		hardhat, safety glasses).		
Others:				
Discuss/Clarify, as Appropriate	e:			
1				
8 AIR MONITORING ACT	TON LEVELS $igtie$	Air Monitoring Applicable, See Below. Air Monitoring Not Applicable		
Make sure air monitoring insti	numents are in working	order and have been calibrated prior to use. Depending on project-specific		
requirements neriodic field ca	alibration of instrument	s may be necessary during day of instrument use.		
requirements, periodic field of	A.O. MION OF HISH MITTON	······, -······························		
A. ACTION LEVELS FOR INHAL	ATION HEALTH HAZ	ARDS (Action levels are for sustained worker breathing zone concentrations)		
Air Quality Parameters Re	emain in Level D	Response Actions for Elevated Airborne Hazards		
1	Modified D			
VOC-	to 25 mm	25 ppm to 100 ppm: Proceed to Level C, or ventilate, or discontinue activities		
VOCs 0	to 25 ppm	> 100 ppm: Proceed to Level B, or, Ventilate, or Discontinue Activities		

	Carbon Monoxide	0 to 35 ppm	At greater than 35 ppm, exit area. Level B, or discontinue activities	, provide adequate ventilation, or proceed to			
Hydrogen Sulfide 0 to 10 ppm		At greater than 10 ppm, exit area, provide adequate ventilation, or proceed to Level B, or discontinue activities					
Oxygen Greater than 19.5%		At 19.5% or below, exit area, prov B, or discontinue activities	ride adequate ventilation, or proceed to Level				
Dust 0 to 25 mg/m ³			Increase misting of air, wash dov readings decrease to acceptable lev	wn equipment, or cease operations until dust			
R ACTI	ON LEVELS FOR E	XPLOSIVE ATMOSPHER	UC HAZADOS				
Check b			Elevated Airborne Hazards				
Applica		Verify presence of adea	uate ovugen (anneov 12% or more)	before taking readings with LEL meter. If			
	Oxygen Verify presence of adequate oxygen (approx. 12% or more) before taking readings with LEL meter. oxygen levels are below 12%, LEL meter readings are not valid.						
	LEL	Less than 10% - Contin Greater than 10% - Disc	ue working, continue to monitor LEI continue work operation and immediately readings have been reduced to le				
L	_!	unough active vapor co	nuoi measures.	······································			
C. SPEC	IAL INSTRUCTION	NS/COMMENTS REGARI	DING AIR MONITORING (IF APPL	ICABLE)			
-		9. H&S TRAINING	G/QUALIFICATIONS FOR FI	ELD PERSONNEL			
		rientation Required for Al					
	Projects, All Field Staff OSHA 40 Hr. Hazwoper/8 Hr. Refreshers Others:						
		n (for project-specific					
	ucts)	(tot project specific					
		one individual on site)					
	eral Construction Sa						
_	cout/Tagout Trainin	_					
I =	trical Safety Trainin	•					
Bloc	odborne Pathogen T	raining					
Discuss	Discuss/Clarify, as needed:						
	·						
1. 2.		10. PROJECT PE	RSONNEL - ROLES AND RE	SPONSIBILITIES			
<u> </u>	N-SITE PERSONN						
Name		Pro	ject Title/Assigned Role	Telephone Numbers			
Sandee	p Singh	Site	Supervisor	work: (973) 774-3318			
D- '	:- A14	C'.	2-6-4-005	cell: (973) 934-1321			
Benjam	in Alter	Site	Safety Officer	work: (973) 774-3309 cell: (973) 865-9017			
Sandee	p Singh	Firs	t Aid Personnel	work: (973) 774-3318			
				cell: (973) 934-1321			
applicab supervisi Site Safe	Site Supervisors and Project Managers (SS/PM): Responsibility for compliance with GZA Health and Safety programs, policies, procedular applicable laws and regulations is shared by all GZA management and supervisory personnel. This includes the need for effective oversist supervision of project staff necessary to control the Health and Safety aspects of GZA on-site activities. Site Safety Officer (SSO): The SSO is responsible for implementation of the Site Specific Health and Safety Plan.						
			ed by GZA who has current training rities involving multiple GZA personr	and certification in basic first aid and cardiopulnel.			

Name	Project Title/Assigned Role	Telephone Numbers
Benjamin Alter	Principal-in-Charge	Work: (973) 774-3309
·		Cell: (973) 865-9017
Benjamin Alter	Project Manager	Work: (973) 774-3309
•		Cell: (973) 865-9017
Benjamin Sallemi	Health and Safety Coordinator (HSC)	Work: (973) 774-3311
•		Cell: (973) 248-7816
Mark P. Malchik	GZA Director of Health and Safety	Work: 781-278-5747
		Cell: 781-760-6421
		Home: 978-287-0591

11. HAZARD ASSESSMENT (CHECK ALL THAT APPLY)

A. GENERAL FIELDWORK HAZARDS: (Investigative, remedial or construction-related work; environmental, geological
geotechnical, geo-civil, wetland/upland/woodland work, etc.)
Confined Space Entry – USE CONFINED SPACE H&S PLAN/ENTRY PERMIT (tanks, vessels, tunnels, misc. equipment enclosures)
Enclosed Spaces (Non-Confined Spaces) - (trenches, basements, sub-basements, attics)
General Housekeeping, Slip/Trip/Fall Hazards
Unsanitary/Infectious Hazards (wastewater, sewage, landfill, medical waste, blood borne pathogens)
Poisonous Plants, Plant Allergies
Biting/Stinging Insects, Spiders, Lyme Disease
Animal Hazards (snakes/rats/vermin, feral dogs/cats, urban dogs, wild animals, etc.)
Water/Wetland Hazards (boating, barge, raft, wading, diving, ice/thin ice, hazardous currents, shoreline/tidewater hazards, dan release/flash floods, river/stream crossing, mud/silt, etc.)
Remote Location/Navigation/Orientation Hazards (need for map/compass/GPS, limited communication/cell phone coverage, getting los distance from medical facility, lack of potable water)
Rough Terrain Hazards (ledges, cliffs, high altitude, climbing, strenuous hiking, rip rap, holes, pits, mine shaft/sink holes, avalanche falling rocks)
Fall Hazards (ladders, stairs, scaffolds, towers, elevated work platforms, retaining walls, rope access work, use of areal lifts, pits, hole etc.)
Weather/Seasonal Hazards (heat/cold stress, sunburn, dehydration, wind/weather/lightning, snow/ice, hunting season)
Roadway/Highway/Transportation Corridor Hazards (moving vehicles, traffic safety, railroad hazards, airport traffic)
Motor Vehicle Operation Hazards (towing, hauling, transporting loads, etc.)
Pedestrians/General Public (any need for special measures to protect bystanders, secure work area during off hours)
Construction/Heavy Equipment, (operation of, or working near, loaders, excavator, backhoe, drill rig, geoprobe, cranes, etc.)
Overhead Hazards (Falling tools, equipment, debris, rocks, tree limbs, etc.)
Hand Tools/Power Tools/Equipment (tool use hazards, chips, blades, projectiles, electrical generators, compressors, hoists, etc.)
Material Handling/Storage Hazards (manual handling, lifting, repetitive motion, mechanical transport, ropes/slings/chains, rigging stacking, etc.)
Gas Welding/Cutting, Arc Welding/Cutting
Electrical Hazards (electrical equipment 120 volts or greater, low voltage electric shock hazards, etc.)

		Fire and Explosion Hazards
	\boxtimes	Noise and Noise Source Awareness
ì	\boxtimes	Utility-Related Hazards (underground/overhead electric utilities, gas pipelines, water, sewer, fiber optic, etc.)
•	\boxtimes	Trenching & Excavation, Test Pits and Related Hazards
		Unexploded Ordnance and Related Hazards
		Long-Distance/Overnight Travel (distance driving/fatigue, unfamiliar territory, unfamiliar rental vehicles, etc.)
		Security/Personal Safety/Criminal Activity/Theft Concerns, High Crime Area
		Lack of Visibility (night work, poor lighting, etc)
		Chemical/Toxicity/Irritant Hazards (See Part III for details)
		Other:
	B. ren	BUILDING-RELATED FIELDWORK HAZARDS (Work in operating or abandoned facilities, including temporary nediation system facilities, or during construction/demolition/renovation/abatement activities)
	\boxtimes	No Building-Related Work
		Operating or Abandoned/Vacant Building
		Confined Space Entry – USE CONFINED SPACE H&S PLAN/ENTRY PERMIT
		Enclosed Spaces (Non-Confined Spaces) – (trenches, basements, sub-basements, attics)
		General Environmental Conditions (degraded walking/working surfaces, housekeeping, poor lighting, too hot, too cold, etc., unsanitary)
		Fire, Hot Work, Explosion (welding/cutting, compressed gases, flammable/combustible liquids)
)		Biological (mold, bird guano, medical waste, insects, vermin, unsanitary, sewerage, waste water, etc.)
		Ionizing/Non-Ionizing Radiation (radioactive materials, x-ray equipment, lasers, UV/IR from welding/process equipment, microwave, magnetic fields, radio frequency hazards)
		Fall Hazards (open pits, elevator shafts, working on roof, elevated work areas, elevated equipment access, stairs, ladders, scaffolding, powered boom lifts/scissors lifts)
		Electrical (operating equipment, power tools, extension cords, GFI, wet locations, abandoned electrical equip, batteries, capacitors, static electricity, arc flash/arc blast hazards, high voltage, need for lockout)
		Stored Energy Hazards (pneumatic/hydraulic pressure, hot surfaces, etc.)
		Mechanical/Moving Equipment/Machinery (cranes, operating equipment, conveyors, lockout hazards, robotic equipment, machine guarding hazards)
		Traffic/Vehicles/Pedestrian (moving fork trucks, parking lot, access road way, loading dock)
		Noise, Vibration Hazards
		Structural Hazards (unsafe floors/stairways/roof, deteriorated building components)
		Demolition/Renovation (overhead hazards, unstable building structures, heavy equipment, restricted access areas, etc.)
		Chemical/Toxicity/Irritant Hazards (See Part III for details)
		Other:
	<u>C. (</u>	CHEMICAL/EXPOSURE HAZARDS
)		No Chemical Hazards Anticipated
		Chemicals Subject to OSHA Hazard Communication (for commercial chemical products, attach MSDSs if applicable)

\boxtimes	Soil and/or Groundwater Contaminants
	Drums and Buried Drums
	Former Chemical Lagoon/Disposal Site
	Miscellaneous Residual "Urban Fill" Hazards and Similar Residual Hazard Conditions
	Contaminated Building Surfaces, Paint, Settled Dust, Accumulated Hazardous Substances
	Vapor/Fume/Particulate from Industrial/ Manufacturing or Welding/Cutting/Hot Processes
	Containerized Waste, Chemicals in Piping & Process Equipment
	Emissions from Gasoline-, Diesel-, Propane-fired Engine, Heater, Similar Equipment
	Spill, Potential for Spill
	General Work Site Airborne Dust Hazards
	Volatile Organic Compounds (VOCs), BTEX
	Chlorinated Organic Compounds
\boxtimes	Fuel Oil, Gasoline, Petroleum Products, Waste Oil
	Asbestos
	Oxygen Deficiency, Asphyxiation Hazards
	Methane Hazards
	Hydrogen Sulfide (H ₂ S)
	Carbon Monoxide
	Herbicides, Pesticide, Fungicide, Animal Poisons
	Metals, Metal Compounds (esp. heavy metals, toxic metals, etc.)
	Corrosives, Acids, Caustics, Strong Irritants
\boxtimes	Polychlorinated Biphenyls (PCBs)
	Polycyclic Aromatic Hydrocarbons (PAHs)
	Compressed Gases or Cryogenic Hazards
	Flammable/Combustible Liquids
	Radiation Hazards (radioactive sealed/open source, x-rays, ultra violet, infrared, radio-frequency, etc.)
	Sensitizers
	Other:

Site Safety Officer or Site Supervisor

Project Manager

H&S Coordinator, Designated H&S Reviewer, or H&S Director

Attachments: Attachment A Site Inspection Log
Attachment B Health and Safety Briefing/Site Orientation Record
Attachment C Incident Report and/or Discovery of a Potential Hazard

12. PLAN AKNOWLEDGEMENT AND APPROVALS - The following individuals indicate their acknowledgement and/or approval of the contents of this Site Specific H&S Plan based on their understanding of project work activities,

associated hazards and the appropriateness of health and safety measures to be implemented.

Attach additional information if required.

(Revised 11/2008)

ATTACHMENT A HEALTH AND SAFETY ORIENTATION/BRIEFING RECORD

CHECK ONE: _	CK ONE: Initial H&S Orientation		Periodic "Toolbox" Safety Meeting		
Project Site/Location	n 21 & 25 Sherwo	od Lane, Fair	field, NJ		
Date	Time_			Job No.: 12.0075418.20	
Proj. Mgr: Benjami	in Alter		PIC: Benjamin Alter		
The undersigned have Specific H&S Plan, a and safety measures for	ind/or appropriate	h and Safety b prior H&S eve	riefing, consisting of a rents or concerns, and/or re	eview of the provisions of the Site view of anticipated H&S concerns	
SUMMARY OF HE	ALTH AND SAFE	TY TOPICS CO	OVERED		
		· · · · · · · · · · · · · · · · · · ·			
	-				
			SIGNATURE	COMPANY	
NAME	(printed)	<u> </u>	SIGNATURE	COMPAN	
			·		
	<u> </u>				
Conducted by:				Date:	

Attachment B Site Inspection Log

PROJECT NAME: Unimatic	LOCATION: 21 & 25 Sherwood Lane, Fairfield, NJ		
PROJECT NUMBER: 12.0075418.20	DATE: COMPLETED BY:		
PROJECT MANAGER: Benjamin Alter			
SITE DESCRIPTION AND NATURE OF WORK: Site is currently contaminated soils and backfilling with certified clean fill.	occupied by a one-story manufacturing building. The work includes the excavation		
W. G. D. COLO G. D. Y. C. WOL	ABIDED CDOVEN WARANDS		
HAZARD COMMUNICATION	UNDERGROUND HAZARDS		
[]Chemical hazards identified	[]All underground hazards identified and		
[]All containers properly labeled	communicated to workers on site		
[]MSDS/workplace notebook on site	[]Utility/Dig-Safe clearance confirmed		
[]Site safety briefing completed and documented	[]Clearance dates:		
ACCIDENTS/EMERGENCY INFO	[]Clearance ID#:		
[]First aid personnel identified	EXCAVATIONS and TRENCHES		
[]Hospital location identified	[]All personnel and storage at least 2 ^{ft} from top		
[]Police/Fire/Ambulance phone numbers available	edge of excavation		
[]Incident investigation forms available	[]Ladder in place		
[] Fire extinguisher present	[]Guarding/barriers in place		
[] The extinguisher present	{ Guarding barriers in place		
SANITATION	VEHICULAR TRAFFIC		
[] Washing facilities available	[]All vehicular traffic routes which could impact		
[]Toilet facilities available	worker safety identified and communicated		
[]Approved trash receptacle available	[]Barriers or other methods established to		
]Water/refreshments available	prevent injury from moving vehicles		
STOD A CE	DEDECTRY AN TRACE CONTROL		
STORAGE	PEDESTRIAN TRAFFIC/SITE CONTROL		
[]Tools/Drill tooling/supplies safely stacked to	[] All walkways which could be impacted by site		
prevent rolling or collapse	activities identified and communicated		
[]Work areas and passage ways kept clear	[]Barriers or other methods established to		
HOUSEVEEDING	prevent pedestrian injury from site activities		
HOUSEKEEPING			
[]Work areas clean and orderly	ENVIRONMENTAL HAZARDS		
[]Storage areas clean and orderly	[]Poisonous plants/stinging or biting		
[] Combustible scrap/debris removed regularly	insects/vermin/sewage/etc. identified and		
[] Waste containers of flammable or toxic materials	communicated		
covered	COMMENTS/OTHER HAZARDS		
OVERHEAD HAZARDS	COMMENTS/OTHER HADARDS		
[]15 ^{ft} minimum clearance maintained			
[] All sources of falling objects/swinging loads/			
rotating equipment identified			
[]Barriers or other methods in place to prevent			
injury due to overhead hazards	 		
nymy suo to ovorneus nazarus	x = OK		
POSTING	NA = Not Applicable		
[]Emergency phone/contact info posted	11		
[]OSHA poster displayed	•		

Attachment C

GZA HEALTH AND SAFETY INCIDENT ANALYSIS FORM

Attach extra sheets as needed. Complete within 48 hours of the incident.

DESCRIPTION OF INCIDENT

Type of incident:	Injury/Illness	Property Damage	Vehicle Related	"Near Hit, Close Call"
Other				
Date/Time of Incider	nt Or Onset of Illness	:		
Location of Incident				
Project:		Job No.	Proj. Mngr	PIC
Description of Site V	Vork, GZA's Role Oi	n Site, and Relationship o	of Inciedent to GZA (GZA)	Employee, Contractor, etc.)
If an injury/illness, N	NAME(s) OF VICTIN	M(s)		
Other individuals dir	ectly or indirectly in	volved		
Description, nature a include part(s) of bo	and extent of injury, and obje	property damage, or othe ct/substance that directly	er pertinent aspects of the ir injured or made person ill:	ncident. In case of injury/illness,
		1. 1	d horristim(s):	
				
			he time of the incident	
Describe the general	l on-site activities and	d individual activities at t	ne ame of the incident:	

Describe any tools or machinery involved:
Describe any personal protective equipment, or other safety equipment used by those involved at the time of the incident:
CAUSES:
Summarize the IMMEDIATE DIRECT CAUSE(S) of the incident:

· · · · · · · · · · · · · · · · · · ·
Identify any CONTRIBUTORY FACTORS OR INDIRECT CAUSES of the incident:
CORRECTIVE ACTIONS - Identify immediate/short term/interim corrective actions or measures taken:

	uture:
A. PARTICIPANTS IN THE INCIDENT OUT, OR CONTRIBUTING TO THE IN	INVESTIGATION - NAME OF GZA EMPLOYEE(S) FILLING FORMATION IN, THIS FORM:
NAME	ROLE/RESPONSIBILITY
s this an OSHA Recordable Incident?	YESNO (If yes, ensure total number of days away on OSHA Log in accordance with OSHA criteria)
s this an OSHA Recordable Incident? work and/or restricted duty work days are tracked	YES NO (If yes, ensure total number of days away
s this an OSHA Recordable Incident? work and/or restricted duty work days are tracked f an injury/illness, report information to Workers	YESNO (If yes, ensure total number of days away on OSHA Log in accordance with OSHA criteria)
s this an OSHA Recordable Incident? work and/or restricted duty work days are tracked f an injury/illness, report information to Workers DISTRIBUTION	YESNO (If yes, ensure total number of days away on OSHA Log in accordance with OSHA criteria) Comp. AdministratorCOMPLETEDNA
s this an OSHA Recordable Incident? work and/or restricted duty work days are tracked f an injury/illness, report information to Workers DISTRIBUTION Director of Health and Safety: Mark Malchik	YESNO (If yes, ensure total number of days away on OSHA Log in accordance with OSHA criteria) Comp. AdministratorCOMPLETEDNA
s this an OSHA Recordable Incident? work and/or restricted duty work days are tracked if an injury/illness, report information to Workers DISTRIBUTION Director of Health and Safety: Mark Malchik Regional Health and Safety Coordinator: Benjamin	YESNO (If yes, ensure total number of days away on OSHA Log in accordance with OSHA criteria) Comp. AdministratorCOMPLETEDNA
is this an OSHA Recordable Incident? work and/or restricted duty work days are tracked If an injury/illness, report information to Workers DISTRIBUTION Director of Health and Safety: Mark Malchik Regional Health and Safety Coordinator: Benjamin District Office Manager: Dennis Rubin	YESNO (If yes, ensure total number of days away on OSHA Log in accordance with OSHA criteria) Comp. AdministratorCOMPLETEDNA
If an injury/illness, report information to Workers DISTRIBUTION	YESNO (If yes, ensure total number of days away on OSHA Log in accordance with OSHA criteria) Comp. AdministratorCOMPLETEDNA



DEED NOTICE

IN ACCORDANCE WITH N.J.S.A. 58:10B-13, THIS DOCUMENT IS TO BE RECORDED IN THE SAME MANNER AS ARE DEEDS AND OTHER INTERESTS IN REAL PROPERTY.

Prepared by:	_
Signature	
Benjamin Alter, P.G., LSRP	
Recorded by:	
Essex County Register of Deeds & Mortgages	_
Printed name	
DEED NOTICE	

This Deed Notice is made as of the _____ day of _____, 2011, by Cardean, LLC (together with his/her/its/their successors and assigns, collectively "Owner").

- 1. THE PROPERTY. Cardean, LLC is the owner in fee simple of certain real property designated as Block 2302, Lot 8, on the tax map of the town of Fairfield, Essex County; the New Jersey Department of Environmental Protection Program Interest Number for the contaminated site which includes this property is 99235; and the property is more particularly described in Exhibit A, which is attached hereto and made a part hereof (the "Property").
- 2. DEPARTMENT'S ASSIGNED BUREAU. The Bureau of Industrial Site Remediation was the New Jersey Department of Environmental Protection program that was responsible for the oversight of the remediation of the Property. The matter was Case No. E20010335.
- 3. SOIL CONTAMINATION. Unimatic Manufacturing Co., Inc. has remediated contaminated soil at the Property, and the New Jersey Department of Environmental Protection approved a remedial action on [Insert date of Department's approval], such that soil contamination remains in certain areas of the Property which contains contaminants in concentrations that do not allow for the unrestricted use of the Property; this soil contamination is described, including the type, concentration and specific location of such contaminants, in Exhibit B, which is attached hereto and made a part hereof. As a result, there is a statutory requirement for this Deed Notice and engineering controls in accordance with N.J.S.A. 58:10B-13.

- 4. CONSIDERATION. In accordance with the New Jersey Department of Environmental Protection's approval of the remedial action work plan for the remediation of the site which included the Property, and in consideration of the terms and conditions of that approval, and other good and valuable consideration, Owner has agreed to subject the Property to certain statutory and regulatory requirements which impose restrictions upon the use of the Property, to restrict certain uses of the Property, and to provide notice to subsequent owners, lessees and operators of the restrictions and the monitoring, maintenance, and biennial certification requirements outlined in this Deed Notice and required by law, as set forth herein.
- 5A. RESTRICTED AREAS. Due to the presence of these contaminants, the Owner has agreed, as part of the remedial action for the Property, to restrict the use of certain parts of the Property (the "Restricted Areas"); a narrative description of these restrictions, along with the associated monitoring and maintenance activities and the biennial certification requirements are provided in Exhibit C, which is attached hereto and made a part hereof. The Owner has also agreed to maintain a list of these restrictions on site for inspection by governmental enforcement officials.
- 5B. ENGINEERING CONTROLS. Due to the presence and concentration of these contaminants, the Owner has also agreed, as part of the remedial action for the Property, to the placement of certain engineering controls on the Property; a narrative description of these engineering controls, along with the associated monitoring and maintenance activities and the biennial certification requirements are provided in Exhibit C.

6A. ALTERATIONS, IMPROVEMENTS, AND DISTURBANCES.

i. Except as provided in Paragraph 6B, below, no person shall make, or allow to be made, any alteration, improvement, or disturbance in, to, or about the Property which disturbs any engineering control at the Property without first obtaining the express written consent of the Department of Environmental Protection. Nothing herein shall constitute a waiver of the obligation of any person to comply with all applicable laws and regulations including, without limitation, the applicable rules of the Occupational Safety and Health Administration. To request the consent of the Department of Environmental Protection, contact:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance, and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413

ii. Notwithstanding subparagraph 6A.i., above, the Department of Environmental Protection's express written consent is not required for any alteration, improvement, or disturbance provided that the owner, lessee or operator:

- (A) Notifies the Department of Environmental Protection of the activity by calling the DEP Hotline, at 1-877-WARN-DEP or 1-877-927-6337, within twenty-four (24) hours after the beginning of each alteration, improvement, or disturbance;
- (B) Restores any disturbance of an engineering control to pre-disturbance conditions within sixty (60) calendar days after the initiation of the alteration, improvement or disturbance:
- (C) Ensures that all applicable worker health and safety laws and regulations are followed during the alteration, improvement, or disturbance, and during the restoration;
- (D) Ensures that exposure to contamination in excess of the applicable remediation standards does not occur;
- (E) Submits a written report, describing the alteration, improvement, or disturbance, to the Department of Environmental Protection within sixty (60) calendar days after the end of each alteration, improvement, or disturbance. The owner, lessee or operator shall include in the report the nature of the alteration, improvement, or disturbance, the dates and duration of the alteration, improvement, or disturbance, the name of key individuals and their affiliations conducting the alteration, improvement, or disturbance, a description of the notice the Owner gave to those persons prior to the disturbance, the amounts of soil generated for disposal, if any, the final disposition and any precautions taken to prevent exposure. The owner, lessee, or operator shall submit the report to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance, and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413

- 6B. EMERGENCIES. In the event of an emergency which presents, or may present, an unacceptable risk to the public health and safety, or to the environment, any person may temporarily breach any engineering control provided that that person complies with each of the following:
 - i. Immediately notifies the Department of Environmental Protection of the emergency, by calling the DEP Hotline at 1-877-WARNDEP or 1-877-927-6337;
 - ii. Limits both the actual disturbance and the time needed for the disturbance to the minimum reasonably necessary to adequately respond to the emergency;
 - iii. Implements all measures necessary to limit actual or potential, present or future risk of exposure to humans or the environment to the contamination;

- iv. Notifies the Department of Environmental Protection when the emergency has ended by calling the DEP Hotline at 1-877-WARNDEP or 1-877-927-6337;
- v. Restores the engineering control to the pre-emergency conditions as soon as possible, and provides a written report to the Department of Environmental Protection of such emergency and restoration efforts within sixty (60) calendar days after completion of the restoration of the engineering control. The report must include all information pertinent to the emergency, potential discharges of contaminants, and restoration measures that were implemented, which, at a minimum, should specify: (a) the nature and likely cause of the emergency, (b) the potential discharges of or exposures to contaminants, if any, that may have occurred, (c) the measures that have been taken to mitigate the effects of the emergency on human health and the environment, (d) the measures completed or implemented to restore the engineering control, and (e) the changes to the engineering control or site operation and maintenance plan to prevent reoccurrence of such conditions in the future. The owner, lessee, or operator shall submit the report to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance, and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413]

- 7A. MONITORING AND MAINTENANCE OF DEED NOTICE, AND PROTECTIVENESS CERTIFICATION. The persons in any way responsible, pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11a et seq., for the hazardous substances that remain at the Property, the persons responsible for conducting the remediation, the Owner, and the subsequent owners, lessees, and operators, shall monitor and maintain this Deed Notice, and certify to the Department on a biennial basis that the remedial action that includes this Deed Notice remains protective of the public health and safety and of the environment. The subsequent owners, lessees and operators have this obligation only during their ownership, tenancy, or operation. The specific obligations to monitor and maintain the deed notice shall include all of the following:
 - i. Monitoring and maintaining this Deed Notice according to the requirements in Exhibit C, to ensure that the remedial action that includes the Deed Notice continues to be protective of the public health and safety and of the environment;
 - ii. Conducting any additional remedial investigations and implement any additional remedial actions, that are necessary to correct, mitigate, or abate each problem related to the protectiveness of the remedial action for the site prior to the date that the certification is due to the Department pursuant to iii, below, in order to ensure that the remedial action that includes this Deed Notice remains protective of the public health and safety and of the environment.

- iii. Certify to the Department of Environmental Protection as to the continued protectiveness of the remedial action that includes this Deed Notice, on a form provided by the Department and consistent with N.J.A.C. 7:26C-1.2 (a)1, every two years on the anniversary of the <u>date stamped on the deed notice that indicates when the deed notice was recorded</u>;
- 7B. MONITORING AND MAINTENANCE OF ENGINEERING CONTROLS, AND PROTECTIVENESS CERTIFICATION. The persons in any way responsible, pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11a et seq., for the hazardous substances that remain at the Property, the person responsible for conducting the remediation, and, the Owner, and the subsequent owners, lessees, and operators, shall maintain all engineering controls at the Property and certify to the Department on a biennial basis that the remedial action of which each engineering control is a part remains protective of the public health and safety and of the environment. The subsequent owners, lessees and operators have this obligation only during their ownership, tenancy, or operation. The specific obligations to monitor and maintain the engineering controls shall include the following:
 - i. Monitoring and maintaining each engineering control according to the requirements in Exhibit C, to ensure that the remedial action that includes the engineering control continues to be protective of the public health and safety and of the environment;
 - ii. Conducting any additional remedial investigations and implement any additional remedial actions, that are necessary to correct, mitigate, or abate each problem related to the protectiveness of the remedial action for the Property prior to the date that the certification is due to the Department pursuant to iii, below, in order to ensure that the remedial action that includes the engineering control remains protective of the public health and safety and of the environment.
 - iii. Certify to the Department of Environmental Protection as to the continued protectiveness of the remedial action that includes the engineering control, on a form provided by the Department and consistent with N.J.A.C. 7:26C-1.2 (a)1, every two years on the anniversary of the <u>date stamped on the deed notice that indicates when the deed notice was recorded.</u>
- 8. ACCESS. The Owner and the subsequent owners, lessees and operators agree to allow the Department, its agents and representatives access to the Property to inspect and evaluate the continued protectiveness of the remedial action that includes this Deed Notice and to conduct additional remediation to ensure the protection of the public health and safety and of the environment if persons responsible for monitoring the protectiveness of the remedial action, as described in Paragraph 7, above, fail to conduct such remediation pursuant to this Deed Notice as required by law. The Owner, and the subsequent owners and lessees, shall also cause all leases, subleases, grants, and other written transfers of an interest in the Restricted Areas to contain a provision expressly requiring that all holders thereof provide such access to the Department.

9. NOTICES.

- i. The Owner and the subsequent owners and lessees, shall cause all leases, grants, and other written transfers of an interest in the Restricted Areas to contain a provision expressly requiring all holders thereof to take the Property subject to the restrictions contained herein and to comply with all, and not to violate any of the conditions of this Deed Notice. Nothing contained in this Paragraph shall be construed as limiting any obligation of any person to provide any notice required by any law, regulation, or order of any governmental authority.
- ii. Owner and all subsequent owners and lessees shall notify any person intending to conduct invasive work or excavate within the Restricted Areas at the Property, including, without limitation, tenants, employees of tenants, and contractors of the nature and location of contamination in the Restricted Areas, and, of the precautions necessary to minimize potential human exposure to contaminants.
- iii. The Owner and the subsequent owners shall provide written notice to the Department of Environmental Protection at least thirty (30) calendar days before the effective date of any conveyance, grant, gift, or other transfer, in whole or in part, of the owner's interest in the Restricted Area.
- iv. The Owner and the subsequent owners shall provide written notice to the Department within thirty (30) calendar days following the owner's petition for or filing of any document initiating a rezoning of the Property. The Owner and the subsequent owners shall submit the written notice to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance, and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413.

10. ENFORCEMENT OF VIOLATIONS.

- i. This Deed Notice itself is not intended to create any interest in real estate in favor of the Department of Environmental Protection, nor to create a lien against the Property, but merely is intended to provide notice of certain conditions and restrictions on the Property and to reflect the regulatory and statutory obligations imposed as a conditional remedial action for this site.
- ii. The restrictions provided herein may be enforceable solely by the Department against any person who violates this Deed Notice. To enforce violations of this Deed Notice, the Department may initiate one or more enforcement actions pursuant to N.J.S.A. 58:10-23.11u and require additional remediation and assess damages pursuant to N.J.S.A. 58:10-23.11g.

- 11. SEVERABILITY. If any court of competent jurisdiction determines that any provision of this Deed Notice requires modification, such provision shall be deemed to have been modified automatically to conform to such requirements. If a court of competent jurisdiction determines that any provision of this Deed Notice is invalid or unenforceable and the provision is of such a nature that it cannot be modified, the provision shall be deemed deleted from this instrument as though the provision had never been included herein. In either case, the remaining provisions of this Deed Notice shall remain in full force and effect.
- 12. SUCCESSORS AND ASSIGNS. This Deed Notice shall be binding upon Owner and upon Owner's successors and assigns, and subsequent owners, lessees and operators while each is an owner, lessee, or operator of the Property.

13. MODIFICATION AND TERMINATION.

- i. Any person may request in writing, at any time, that the Department modify this Deed Notice where performance of subsequent remedial actions, a change of conditions at the Property, or the adoption of revised remediation standards suggest that modification of the Deed Notice would be appropriate.
- ii. Any person may request in writing, at any time, that the Department terminate this Deed Notice because the conditions which triggered the need for this Deed Notice are no longer applicable.
- iii. This Deed Notice may be revised or terminated only upon filing of an instrument, executed by the Department, in the office of the County Clerk of Essex County, New Jersey, expressly modifying or terminating this Deed Notice.
- 14A. EXHIBIT A. Exhibit A includes the following maps of the Property and the vicinity:
- i. Exhibit A-1: Vicinity Map A map that identifies by name the roads, and other important geographical features in the vicinity of the Property (for example, Hagstrom County Maps);
- ii. Exhibit A-2: Metes and Bounds Description A metes and bounds description of the Property, including reference to tax lot and block numbers for the Property;
- iii. Exhibit A-3: Property Map A scaled map of the Property, scaled at one inch to 200 feet or less, and if more than one map is submitted, the maps shall be presented as overlays, keyed to a base map; and the Property Map shall include diagrams of major surface topographical features such as buildings, roads, and parking lots.
- 14B. EXHIBIT B. Exhibit B includes the following descriptions of the Restricted Areas:
- i. Exhibit B-1: Restricted Area Map A separate map for each restricted area that includes:

- (A) As-built diagrams of each engineering control, including caps, fences, slurry walls, ground water monitoring wells, and ground water pumping system;
- (B) As-built diagrams of any buildings, roads, parking lots and other structures that function as engineering controls; and
- (C) Designation of all soil and sediment sample locations within the restricted areas that exceed any soil or sediment standard that are keyed into one of the tables described in the following paragraph.
- ii. Exhibit B-2: Restricted Area Data Table A separate table for each restricted area that includes:
 - (A) Sample location designation from Restricted Area map (Exhibit B-1);
 - (B) Sample elevation based upon mean sea level;
 - (C) Name and chemical abstract service registry number of each contaminant with a concentration that exceeds the unrestricted use standard;
 - (D) The restricted and unrestricted use standards for each contaminant in the table; and
 - (E) The remaining concentration of each contaminant at each sample location at each elevation (or if historic fill, include data from the Department's default concentrations at N.J.A.C. 7:26E-4.6, Table 4-2).
- 14C. EXHIBIT C. Exhibit C includes narrative descriptions of the institutional controls and engineering controls as follows:
 - i. Exhibit C-1: Deed Notice as Institutional Control: Exhibit C-1 includes a narrative description of the restriction and obligations of this Deed Notice that are in addition to those describe above, as follows:
 - (A) General Description of this Deed Notice:
 - (1) Description and estimated size of the Restricted Areas as described above;
 - (2) Description of the restrictions on the Property by operation of this Deed Notice; and
 - (3) The objective of the restrictions.
 - (B) Description of the monitoring necessary to determine whether:

- (1) Any disturbances of the soil in the Restricted Areas did not result in the unacceptable exposure to the soil contamination;
- (2) There have been any land use changes subsequent to the filing of this Deed Notice or the most recent biennial certification, whichever is more recent;
- (3) The current land use on the Property is consistent with the restrictions in this Deed Notice;
- (4) Any newly promulgated or modified requirements of applicable regulations or laws apply to the site; and
- (5) Any new standards, regulations, or laws apply to the site that might necessitate additional sampling in order to evaluate the protectiveness of the remedial action which includes this Deed Notice, and conduct the necessary sampling.
- (C) Description of the following items that will be included in the biennial certification:
 - (1) A monitoring report that describes the specific activities, pursuant to (A) and (B), above, conducted in support of the biennial certification of the protectiveness of the remedial action that includes this Deed Notice;
 - (2) Land use at the Property is consistent with the restrictions in this Deed Notice; and
 - (3) The remedial action that includes this Deed Notice continues to be protective of the public health and safety and of the environment.
- ii. Exhibit C-2: Capping: Exhibit C-2 includes a narrative description of capping as follows:
 - (A) General Description of the engineering control:
 - (1) Description of the engineering control;
 - (2) The objective of the engineering control; and
 - (3) How the engineering control is intended to function.
 - (B) Description of the operation and maintenance necessary to ensure that:
 - (1) Periodic inspections of each engineering control are performed in order to determine its integrity, operability, and effectiveness;

- (2) Each engineering control continues as designed and intended to protect the public health and safety and the environment;
- (3) Each alteration, excavation or disturbance of any engineering control is timely and appropriately addressed to maintain the integrity of the engineering control;
- (4) This engineering control is being inspected and maintained and its integrity remains so that the remedial action continues to be protective of the public health and safety and of the environment;
- (5) A record of the self-inspection dates, name of the inspector, results of the inspection and condition(s) of this engineering control. Sampling, for example, may be necessary if it is not possible to visually evaluate the integrity/ performance of this engineering control; and
- (6) Any new standards, regulations, or laws apply to the site that might necessitate additional sampling in order to evaluate the protectiveness of the remedial action which includes this Deed Notice, and conduct the necessary sampling.
- (C) Description of the following items that will be included in the biennial certification:
 - (1) A monitoring report that describes the specific activities, pursuant to (A) and (B), above, conducted in support of the biennial certification of the protectiveness of the remedial action that includes this Deed Notice;
 - (2) The engineering controls continue to operate as designed; and
 - (3) The remedial action that includes the engineering control continues to be protective of the public health and safety and of the environment.
- 15. SIGNATURES. IN WITNESS WHEREOF, Owner has executed this Deed Notice as of the date first written above.

ATTEST:		Cardean, LLC				
	_	Ву				
Print name and title	_	Signature				
STATE OF NEW JERSEY	SS.:					

I certify that onpersonally came before m	, 2011, [Name of e, and this person acl	person executing document on behalf of Owner] knowledged under oath, to my satisfaction, that:
(a) this person is the named in this docume		t secretary] of Cardean, LLC, the corporation
		o the signing of this document by the proper president] of the corporation;
(c) this document was duly authorized;	was signed and deliv	ered by the corporation as its voluntary act and
(d) this person kno document; and	ows the proper seal o	f the corporation which was affixed to this
(e) this person sign	ned this proof to attes	st to the truth of these facts.
Signature		
Print name and titl	e of attesting witness	 S
Signed and sworn	before me on	, 2011
		, Notary Public
[Print name and ti	tle]	

Exhibit A-2: Metes and Bounds Description

- The borough of Fairfield, Essex County tax map for the property, Block 2308 Lot 8 is attached as Exhibit A-1.
- The metes and bounds description of the property is as follows:

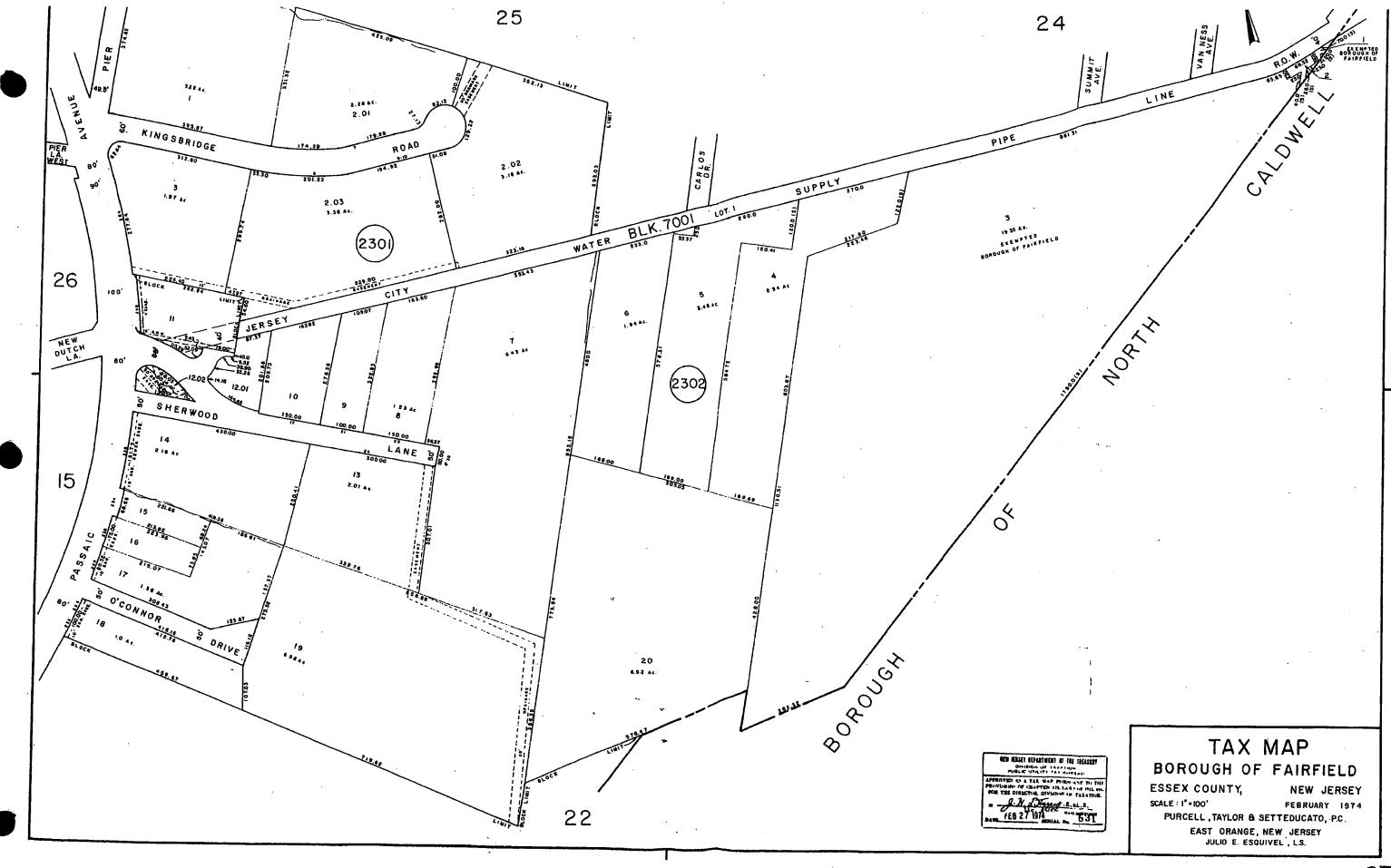
Beginning at the point in the North side of Sherwood Lane, point being distant 550 feet Easterly from the East side of Passaic Avenue; said BEGINNING point also being the Southeast corner of land conveyed to Industry Publications, Inc., thence (1) running along the East line of Industry Publication, Inc., North 22 degrees, 49 minutes, 40 seconds East 322.95 feet to Jersey City Water Company right-of-way; thence (2) running along the South line of Jersey City Water Company right-of-way North 89 degrees, 14 minutes East 163.60 feet to a point; thence (3) South 22 degrees, 49 minutes, 40 seconds West 392.99 feet, to the North side of Sherwood Lane; thence (4) running along the North line of Sherwood Lane, North 65 degrees, 26 minutes West 150 feet to the point and place of BEGINNING.

Exhibit C-1: Deed Notice as an Institutional Control

The deed notice restricted area a portion of the JCMUA property known as Block 7001, Lot 1. The property does not contain any structures, but does contain two buried water lines that provide Jersey City with its potable water supply. The property is accessible to the general public.

The objective of the deed notice restrictions is to limit any contact with the contaminated soil. The eight feet of unimpacted soils overlying the PCB-impacted soils will provide a cap and prevent direct contact with the PCB-impacted soils. Because there are large water lines above the PCB-impacted soils, it is highly unlikely that any construction activities will inadvertently encounter these soils.

Biennial monitoring and inspection of the engineering controls will be conducted to insure that there have been no disturbance of the soil, that there have been no land use changes to the restricted area, that the land use is consistent with the deed notice restrictions, if any newly regulations apply to the site, and that if any new standards, regulations, or laws apply to the site that the necessary remedial action be completed. The soils cap shall remain intact in order to eliminate the possibility of exposure to the soil contamination. If the soils are disturbed, they must be restored with the appropriate materials. The biennial certification monitoring report will contain information about the protectiveness of the cap and the land use at the site.



Provision Allowing Engineering and Institutional Controls from 2007 Letter Agreement Between Unimatic Manufacturing Corp. and Frameware, Inc.

4. Frameware understands and agrees that in order for Unimatic to obtain its ISRA No Further Action Letter for the Frameware site, engineering and institutional controls will have to be placed on the property, including a deed notice. Frameware hereby agrees to the imposition of such engineering and institutional controls, including a deed notice, provided that Unimatic shall take all steps necessary to assure that any engineering and institutional controls do not interfere with Frameware's operation of its business on the Property.

Signature:

Printed Name: MANE D. POUCASTRO

Title: ATTUME For Frameware, Inc.

With full authority to do so, I hereby approve of the

With full authority to do so, I hereby approve of the terms set forth above on behalf of Unimatic Manufacturing Corp.

Printed Name: William J. Friedman

Title: Attarney for Vinnatic

Date: May 31, 2007



DEED NOTICE

IN ACCORDANCE WITH N.J.S.A. 58:10B-13, THIS DOCUMENT IS TO BE RECORDED IN THE SAME MANNER AS ARE DEEDS AND OTHER INTERESTS IN REAL PROPERTY.

Prepared by:	
Benjamin Alter, P.G., LSRP	
Recorded by:	
Essex County Register of Deeds & Mortgages	•
Printed name	

DEED NOTICE

This Deed Notice is made as of the _____ day of _____, 2011, by Jersey City Municipal Utilities Authority (together with his/her/its/their successors and assigns, collectively "Owner").

- 1. THE PROPERTY. Jersey City Municipal Utilities Authority is the owner in fee simple of certain real property designated as Block 7001, Lot 1, on the tax map of the town of Fairfield, Essex County; the New Jersey Department of Environmental Protection Program Interest Number for the contaminated site which includes this property is 99235; and the property is more particularly described in Exhibit A, which is attached hereto and made a part hereof (the "Property").
- 2. DEPARTMENT'S ASSIGNED BUREAU. The Bureau of Industrial Site Remediation was the New Jersey Department of Environmental Protection program that was responsible for the oversight of the remediation of the Property. The matter was Case No. E20010335.
- 3. SOIL CONTAMINATION. Unimatic Manufacturing Co., Inc. has remediated contaminated soil at the Property, and the New Jersey Department of Environmental Protection approved a remedial action on [Insert date of Department's approval], such that soil contamination remains in certain areas of the Property which contains contaminants in concentrations that do not allow for the unrestricted use of the Property; this soil contamination is described, including the type, concentration and specific location of such contaminants, in Exhibit B, which is attached hereto and made a part hereof. As a result, there is a statutory requirement for this Deed Notice and engineering controls in accordance with N.J.S.A. 58:10B-13.

- 4. CONSIDERATION. In accordance with the New Jersey Department of Environmental Protection's approval of the remedial action work plan for the remediation of the site which included the Property, and in consideration of the terms and conditions of that approval, and other good and valuable consideration, Owner has agreed to subject the Property to certain statutory and regulatory requirements which impose restrictions upon the use of the Property, to restrict certain uses of the Property, and to provide notice to subsequent owners, lessees and operators of the restrictions and the monitoring, maintenance, and biennial certification requirements outlined in this Deed Notice and required by law, as set forth herein.
- 5A. RESTRICTED AREAS. Due to the presence of these contaminants, the Owner has agreed, as part of the remedial action for the Property, to restrict the use of certain parts of the Property (the "Restricted Areas"); a narrative description of these restrictions, along with the associated monitoring and maintenance activities and the biennial certification requirements are provided in Exhibit C, which is attached hereto and made a part hereof. The Owner has also agreed to maintain a list of these restrictions on site for inspection by governmental enforcement officials.
- 5B. ENGINEERING CONTROLS. Due to the presence and concentration of these contaminants, the Owner has also agreed, as part of the remedial action for the Property, to the placement of certain engineering controls on the Property; a narrative description of these engineering controls, along with the associated monitoring and maintenance activities and the biennial certification requirements are provided in Exhibit C.

6A. ALTERATIONS, IMPROVEMENTS, AND DISTURBANCES.

i. Except as provided in Paragraph 6B, below, no person shall make, or allow to be made, any alteration, improvement, or disturbance in, to, or about the Property which disturbs any engineering control at the Property without first obtaining the express written consent of the Department of Environmental Protection. Nothing herein shall constitute a waiver of the obligation of any person to comply with all applicable laws and regulations including, without limitation, the applicable rules of the Occupational Safety and Health Administration. To request the consent of the Department of Environmental Protection, contact:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance, and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413

ii. Notwithstanding subparagraph 6A.i., above, the Department of Environmental Protection's express written consent is not required for any alteration, improvement, or disturbance provided that the owner, lessee or operator:

- (A) Notifies the Department of Environmental Protection of the activity by calling the DEP Hotline, at 1-877-WARN-DEP or 1-877-927-6337, within twenty-four (24) hours after the beginning of each alteration, improvement, or disturbance;
- (B) Restores any disturbance of an engineering control to pre-disturbance conditions within sixty (60) calendar days after the initiation of the alteration, improvement or disturbance;
- (C) Ensures that all applicable worker health and safety laws and regulations are followed during the alteration, improvement, or disturbance, and during the restoration;
- (D) Ensures that exposure to contamination in excess of the applicable remediation standards does not occur;
- (E) Submits a written report, describing the alteration, improvement, or disturbance, to the Department of Environmental Protection within sixty (60) calendar days after the end of each alteration, improvement, or disturbance. The owner, lessee or operator shall include in the report the nature of the alteration, improvement, or disturbance, the dates and duration of the alteration, improvement, or disturbance, the name of key individuals and their affiliations conducting the alteration, improvement, or disturbance, a description of the notice the Owner gave to those persons prior to the disturbance, the amounts of soil generated for disposal, if any, the final disposition and any precautions taken to prevent exposure. The owner, lessee, or operator shall submit the report to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance, and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413

- 6B. EMERGENCIES. In the event of an emergency which presents, or may present, an unacceptable risk to the public health and safety, or to the environment, any person may temporarily breach any engineering control provided that that person complies with each of the following:
 - i. Immediately notifies the Department of Environmental Protection of the emergency, by calling the DEP Hotline at 1-877-WARNDEP or 1-877-927-6337;
 - ii. Limits both the actual disturbance and the time needed for the disturbance to the minimum reasonably necessary to adequately respond to the emergency;
 - iii. Implements all measures necessary to limit actual or potential, present or future risk of exposure to humans or the environment to the contamination;

- iv. Notifies the Department of Environmental Protection when the emergency has ended by calling the DEP Hotline at 1-877-WARNDEP or 1-877-927-6337;
- v. Restores the engineering control to the pre-emergency conditions as soon as possible, and provides a written report to the Department of Environmental Protection of such emergency and restoration efforts within sixty (60) calendar days after completion of the restoration of the engineering control. The report must include all information pertinent to the emergency, potential discharges of contaminants, and restoration measures that were implemented, which, at a minimum, should specify: (a) the nature and likely cause of the emergency, (b) the potential discharges of or exposures to contaminants, if any, that may have occurred, (c) the measures that have been taken to mitigate the effects of the emergency on human health and the environment, (d) the measures completed or implemented to restore the engineering control, and (e) the changes to the engineering control or site operation and maintenance plan to prevent reoccurrence of such conditions in the future. The owner, lessee, or operator shall submit the report to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance, and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413]

7A. MONITORING AND MAINTENANCE OF DEED NOTICE, AND PROTECTIVENESS CERTIFICATION. The persons in any way responsible, pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11a et seq., for the hazardous substances that remain at the Property, the persons responsible for conducting the remediation, the Owner, and the subsequent owners, lessees, and operators, shall monitor and maintain this Deed Notice, and certify to the Department on a biennial basis that the remedial action that includes this Deed Notice remains protective of the public health and safety and of the environment. The subsequent owners, lessees and operators have this obligation only during their ownership, tenancy, or operation. The specific obligations to monitor and maintain the deed notice shall include all of the following:

- i. Monitoring and maintaining this Deed Notice according to the requirements in Exhibit C, to ensure that the remedial action that includes the Deed Notice continues to be protective of the public health and safety and of the environment;
- ii. Conducting any additional remedial investigations and implement any additional remedial actions, that are necessary to correct, mitigate, or abate each problem related to the protectiveness of the remedial action for the site prior to the date that the certification is due to the Department pursuant to iii, below, in order to ensure that the remedial action that includes this Deed Notice remains protective of the public health and safety and of the environment.

- iii. Certify to the Department of Environmental Protection as to the continued protectiveness of the remedial action that includes this Deed Notice, on a form provided by the Department and consistent with N.J.A.C. 7:26C-1.2 (a)1, every two years on the anniversary of the date stamped on the deed notice that indicates when the deed notice was recorded;
- 7B. MONITORING AND MAINTENANCE OF ENGINEERING CONTROLS, AND PROTECTIVENESS CERTIFICATION. The persons in any way responsible, pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11a et seq., for the hazardous substances that remain at the Property, the person responsible for conducting the remediation, and, the Owner, and the subsequent owners, lessees, and operators, shall maintain all engineering controls at the Property and certify to the Department on a biennial basis that the remedial action of which each engineering control is a part remains protective of the public health and safety and of the environment. The subsequent owners, lessees and operators have this obligation only during their ownership, tenancy, or operation. The specific obligations to monitor and maintain the engineering controls shall include the following:
 - i. Monitoring and maintaining each engineering control according to the requirements in Exhibit C, to ensure that the remedial action that includes the engineering control continues to be protective of the public health and safety and of the environment;
 - ii. Conducting any additional remedial investigations and implement any additional remedial actions, that are necessary to correct, mitigate, or abate each problem related to the protectiveness of the remedial action for the Property prior to the date that the certification is due to the Department pursuant to iii, below, in order to ensure that the remedial action that includes the engineering control remains protective of the public health and safety and of the environment.
 - iii. Certify to the Department of Environmental Protection as to the continued protectiveness of the remedial action that includes the engineering control, on a form provided by the Department and consistent with N.J.A.C. 7:26C-1.2 (a)1, every two years on the anniversary of the <u>date stamped on the deed notice that indicates when the deed notice was recorded.</u>
- 8. ACCESS. The Owner and the subsequent owners, lessees and operators agree to allow the Department, its agents and representatives access to the Property to inspect and evaluate the continued protectiveness of the remedial action that includes this Deed Notice and to conduct additional remediation to ensure the protection of the public health and safety and of the environment if persons responsible for monitoring the protectiveness of the remedial action, as described in Paragraph 7, above, fail to conduct such remediation pursuant to this Deed Notice as required by law. The Owner, and the subsequent owners and lessees, shall also cause all leases, subleases, grants, and other written transfers of an interest in the Restricted Areas to contain a provision expressly requiring that all holders thereof provide such access to the Department.

9. NOTICES.

- i. The Owner and the subsequent owners and lessees, shall cause all leases, grants, and other written transfers of an interest in the Restricted Areas to contain a provision expressly requiring all holders thereof to take the Property subject to the restrictions contained herein and to comply with all, and not to violate any of the conditions of this Deed Notice. Nothing contained in this Paragraph shall be construed as limiting any obligation of any person to provide any notice required by any law, regulation, or order of any governmental authority.
- ii. Owner and all subsequent owners and lessees shall notify any person intending to conduct invasive work or excavate within the Restricted Areas at the Property, including, without limitation, tenants, employees of tenants, and contractors of the nature and location of contamination in the Restricted Areas, and, of the precautions necessary to minimize potential human exposure to contaminants.
- iii. The Owner and the subsequent owners shall provide written notice to the Department of Environmental Protection at least thirty (30) calendar days before the effective date of any conveyance, grant, gift, or other transfer, in whole or in part, of the owner's interest in the Restricted Area.
- iv. The Owner and the subsequent owners shall provide written notice to the Department within thirty (30) calendar days following the owner's petition for or filing of any document initiating a rezoning of the Property. The Owner and the subsequent owners shall submit the written notice to:

Department of Environmental Protection
Division of Remediation Management and Response
Bureau of Operation, Maintenance, and Monitoring
Deed Notice Inspection Program
P.O. Box 413
401 E. State Street
Trenton, NJ 08625-0413.

10. ENFORCEMENT OF VIOLATIONS.

- i. This Deed Notice itself is not intended to create any interest in real estate in favor of the Department of Environmental Protection, nor to create a lien against the Property, but merely is intended to provide notice of certain conditions and restrictions on the Property and to reflect the regulatory and statutory obligations imposed as a conditional remedial action for this site.
- ii. The restrictions provided herein may be enforceable solely by the Department against any person who violates this Deed Notice. To enforce violations of this Deed Notice, the Department may initiate one or more enforcement actions pursuant to N.J.S.A. 58:10-23.11u and require additional remediation and assess damages pursuant to N.J.S.A. 58:10-23.11g.

- 11. SEVERABILITY. If any court of competent jurisdiction determines that any provision of this Deed Notice requires modification, such provision shall be deemed to have been modified automatically to conform to such requirements. If a court of competent jurisdiction determines that any provision of this Deed Notice is invalid or unenforceable and the provision is of such a nature that it cannot be modified, the provision shall be deemed deleted from this instrument as though the provision had never been included herein. In either case, the remaining provisions of this Deed Notice shall remain in full force and effect.
- 12. SUCCESSORS AND ASSIGNS. This Deed Notice shall be binding upon Owner and upon Owner's successors and assigns, and subsequent owners, lessees and operators while each is an owner, lessee, or operator of the Property.

13. MODIFICATION AND TERMINATION.

- i. Any person may request in writing, at any time, that the Department modify this Deed Notice where performance of subsequent remedial actions, a change of conditions at the Property, or the adoption of revised remediation standards suggest that modification of the Deed Notice would be appropriate.
- ii. Any person may request in writing, at any time, that the Department terminate this Deed Notice because the conditions which triggered the need for this Deed Notice are no longer applicable.
- iii. This Deed Notice may be revised or terminated only upon filing of an instrument, executed by the Department, in the office of the County Clerk of Essex County, New Jersey, expressly modifying or terminating this Deed Notice.
- 14A. EXHIBIT A. Exhibit A includes the following maps of the Property and the vicinity:
- i. Exhibit A-1: Vicinity Map A map that identifies by name the roads, and other important geographical features in the vicinity of the Property (for example, Hagstrom County Maps);
- ii. Exhibit A-2: Metes and Bounds Description A metes and bounds description of the Property, including reference to tax lot and block numbers for the Property;
- iii. Exhibit A-3: Property Map A scaled map of the Property, scaled at one inch to 200 feet or less, and if more than one map is submitted, the maps shall be presented as overlays, keyed to a base map; and the Property Map shall include diagrams of major surface topographical features such as buildings, roads, and parking lots.
- 14B. EXHIBIT B. Exhibit B includes the following descriptions of the Restricted Areas:
- i. Exhibit B-1: Restricted Area Map A separate map for each restricted area that includes:

- (A) As-built diagrams of each engineering control, including caps, fences, slurry walls, ground water monitoring wells, and ground water pumping system;
- (B) As-built diagrams of any buildings, roads, parking lots and other structures that function as engineering controls; and
- (C) Designation of all soil and sediment sample locations within the restricted areas that exceed any soil or sediment standard that are keyed into one of the tables described in the following paragraph.
- ii. Exhibit B-2: Restricted Area Data Table A separate table for each restricted area that includes:
 - (A) Sample location designation from Restricted Area map (Exhibit B-1);
 - (B) Sample elevation based upon mean sea level;
 - (C) Name and chemical abstract service registry number of each contaminant with a concentration that exceeds the unrestricted use standard;
 - (D) The restricted and unrestricted use standards for each contaminant in the table; and
 - (E) The remaining concentration of each contaminant at each sample location at each elevation.
- 14C. EXHIBIT C. Exhibit C includes narrative descriptions of the institutional controls and engineering controls as follows:
 - i. Exhibit C-1: Deed Notice as Institutional Control: Exhibit C-1 includes a narrative description of the restriction and obligations of this Deed Notice that are in addition to those describe above, as follows:
 - (A) General Description of this Deed Notice:
 - (1) Description and estimated size of the Restricted Areas as described above;
 - (2) Description of the restrictions on the Property by operation of this Deed Notice; and
 - (3) The objective of the restrictions.
 - (B) Description of the monitoring necessary to determine whether:
 - (1) Any disturbances of the soil in the Restricted Areas did not result in the unacceptable exposure to the soil contamination;

- (2) There have been any land use changes subsequent to the filing of this Deed Notice or the most recent biennial certification, whichever is more recent;
- (3) The current land use on the Property is consistent with the restrictions in this Deed Notice;
- (4) Any newly promulgated or modified requirements of applicable regulations or laws apply to the site; and
- (5) Any new standards, regulations, or laws apply to the site that might necessitate additional sampling in order to evaluate the protectiveness of the remedial action which includes this Deed Notice, and conduct the necessary sampling.
- (C) Description of the following items that will be included in the biennial certification:
 - (1) A monitoring report that describes the specific activities, pursuant to (A) and (B), above, conducted in support of the biennial certification of the protectiveness of the remedial action that includes this Deed Notice;
 - (2) Land use at the Property is consistent with the restrictions in this Deed Notice; and
 - (3) The remedial action that includes this Deed Notice continues to be protective of the public health and safety and of the environment.
- ii. Exhibit C-2: Capping: Exhibit C-2 includes a narrative description of capping as follows:
 - (A) General Description of the engineering control:
 - (1) Description of the engineering control;
 - (2) The objective of the engineering control; and
 - (3) How the engineering control is intended to function.
 - (B) Description of the operation and maintenance necessary to ensure that:
 - (1) Periodic inspections of each engineering control are performed in order to determine its integrity, operability, and effectiveness;
 - (2) Each engineering control continues as designed and intended to protect the public health and safety and the environment;

- (3) Each alteration, excavation or disturbance of any engineering control is timely and appropriately addressed to maintain the integrity of the engineering control;
- (4) This engineering control is being inspected and maintained and its integrity remains so that the remedial action continues to be protective of the public health and safety and of the environment;
- (5) A record of the self-inspection dates, name of the inspector, results of the inspection and condition(s) of this engineering control. Sampling, for example, may be necessary if it is not possible to visually evaluate the integrity/ performance of this engineering control; and
- (6) Any new standards, regulations, or laws apply to the site that might necessitate additional sampling in order to evaluate the protectiveness of the remedial action which includes this Deed Notice, and conduct the necessary sampling.
- (C) Description of the following items that will be included in the biennial certification:
 - (1) A monitoring report that describes the specific activities, pursuant to (A) and (B), above, conducted in support of the biennial certification of the protectiveness of the remedial action that includes this Deed Notice;
 - (2) The engineering controls continue to operate as designed; and
 - (3) The remedial action that includes the engineering control continues to be protective of the public health and safety and of the environment.
- 15. SIGNATURES. IN WITNESS WHEREOF, Owner has executed this Deed Notice as of the date first written above.

ATTEST:	Jersey City Municipal Utilities Authority
	By
Print name and title	Signature
STATE OF NEW JERSEY SS COUNTY OF ESSEX	S.:
I certify that on, 201 personally came before me, and the	11, [Name of person executing document on behalf of Owner] his person acknowledged under oath, to my satisfaction, that:

- (a) this person is the [secretary/assistant secretary] of Jersey City Municipal Utilities Authority, the corporation named in this document;
- (b) this person is the attesting witness to the signing of this document by the proper corporate officer who is the [president/vice president] of the corporation;
- (c) this document was signed and delivered by the corporation as its voluntary act and was duly authorized;
- (d) this person knows the proper seal of the corporation which was affixed to this document; and

(e) this person signed this proof to attest to the truth of these facts.

Signature	
Print name and title of attesting witness	
Signed and sworn before me on	_, 2011
	_, Notary Public
[Print name and title]	<u> </u>

Exhibit A-2: Metes and Bounds Description

- The borough of Fairfield, Essex County tax map for the property, Block 2308 Lot 8 is attached as Exhibit A-1.
- The metes and bounds description of the property is as follows:

Beginning at the point in the North side of Sherwood Lane, point being distant 550 feet Easterly from the East side of Passaic Avenue; said BEGINNING point also being the Southeast corner of land conveyed to Industry Publications, Inc., thence (1) running along the East line of Industry Publication, Inc., North 22 degrees, 49 minutes, 40 seconds East 322.95 feet to Jersey City Water Company right-of-way; thence (2) running along the South line of Jersey City Water Company right-of-way North 89 degrees, 14 minutes East 163.60 feet to a point; thence (3) South 22 degrees, 49 minutes, 40 seconds West 392.99 feet, to the North side of Sherwood Lane; thence (4) running along the North line of Sherwood Lane, North 65 degrees, 26 minutes West 150 feet to the point and place of BEGINNING.

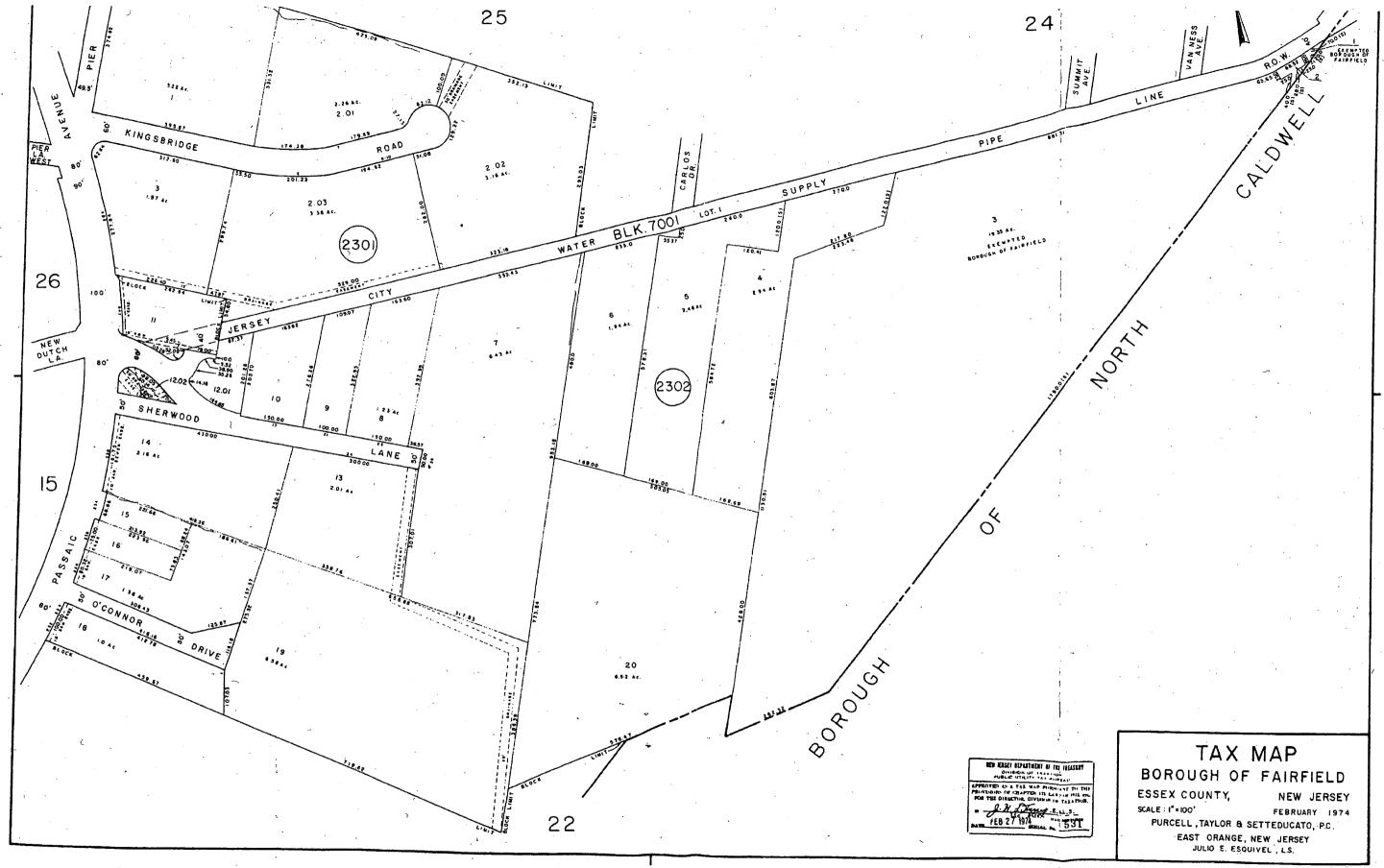
Exhibit C-1: Deed Notice as an Institutional Control

The deed notice will restrict a portion of the JCMUA property known as Block 7001, Lot 1. The property does not contain any structures, but does contain two buried water lines that provide Jersey City with its potable water supply. The property is accessible to the general public.

The objective of the deed notice restrictions is to limit any contact with the contaminated soil. The eight feet of unimpacted soils overlying the PCB-impacted soils will provide a cap and prevent direct contact with the PCB-impacted soils. Because there are large water lines are within the eight feet of unimpacted soils and above the PCB-impacted soils, it is highly unlikely that any construction activities will inadvertently encounter these soils.

Biennial monitoring and inspection of the deed restricted area will be conducted to insure that there has been no disturbance of the soil, that the land use remains consistent with the deed notice restrictions, and if any newly regulations apply to the site, or if any new standards, regulations, or laws apply to the site, the necessary remedial action have been completed. The soils cap shall remain intact in order to eliminate the possibility of exposure to the soil contamination. If the soils are disturbed, they must be restored with the appropriate materials. The biennial certification monitoring report will contain information about the protectiveness of the cap and the land use at the site.

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APPENDIX N



Appendix N Ground Water Classification Exception Area Fact Sheet

A. SITE INFORMATION

1. Program's Site Identification Number: <u>E20010335</u>

2. Program Interest Number (Preferred ID): 99235

3. Program Interest Name: Unimatic Manufacturing Co., Inc.

4. Street address: 25 Sherwood Lane

5. City: Fairfield

6. County: Essex

7. Block and Lots of the site (duplicate if the site is located in more than one municipality):

a. Name of the municipality in which the site is located: Fairfield

b. Block and Lot: Block 2302, Lot 8

c. Year of tax map: 1974

8. United States Geological Survey Quadrangle map, indicating the location of the site, presented as **Figure 1**.

9. Site Contact:

a. Name of contact person: Benjamin Alter

b. Company name: GZA GeoEnvironmental, Inc.

c. Mailing address: 55 Lane Road, Suite 407, Fairfield, NJ 07004

d. Phone number: (973) 774-3309

B. PROPOSED CLASSIFICATION EXCEPTION AREA INFORMATION

1. Narrative description of proposed classification exception area:

The proposed CEA is bounded by monitoring wells MW-1, MW-3, and MW-5 to the south, and the property boundaries north of these wells to the east, north, and west

2. Location of proposed classification exception area:

a. Name of the municipality in which the site is located: Fairfield

b. Block and Lot: Block 2302, Lot 8

c. Year of tax map: 1974

3. Affected aquifer(s):

Aquifer Vertical Ground Water
Name Depth Classification

Glacial Overburden 50 Feet (approx.) II-A

4. Contaminant concentrations:

5. Proposed classification exception area boundaries:

Horizontal: Entire Site

Vertical: Water table to 60 feet below ground surface

Locational coordinates of boundary of proposed classification exception area as New Jersey State Plane Coordinates. A minimum of four coordinates shall be submitted, in a format compatible with Department's geographic information system:

Northing	Easting	(New Jersey State Plane Coordinates)
744973	555902	
745223	556040	
745056	555914	
745150	555856	
745163	555926	
745948	555899	
		•

NOTE: These coordinates are estimates. A licensed surveyor will mark the locations of the CEA once the Department have approved its boundaries.

6. Estimated size of the proposed ground water classification exception area:

22,900 ft²

- 7. Projected duration and expiration date of the proposed classification exception area:
 - a. Duration (in years and or days): Indeterminate
 - b. Expiration date (as calendar date): Indeterminate

Footnotes

- 1 Maximum concentration in the most recent groundwater data (2007) used in Classification Exception Area Modification calculations.
- 2 New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C.
- 3 New Jersey Surface Water Quality Standard N.J.A.C. 7:9B
- 3 Safe Drinking Water Maximum Concentration Level N.J.A.C. 7:10.

Comments:

Since there is an exceedance of PCBs above the Primary Drinking Water Standards, and the designated uses of Class IIA aquifers include potable use, the CEA established for this Site is also a Well Restriction Area. The extent of the Well Restriction Area shall coincide with the CEA boundaries.

Well Restrictions Set Within Boundaries of the CEA

- 1. With the exception of monitoring wells installed into the first water bearing zone, any proposed well to be installed in the CEA/WRA boundary shall be double cased to an appropriate depth in order to prevent any vertical contaminant migration pathways. This depth is either into a confining layer or 50 feet below the vertical extent of the CEA.
- 2. Any potable well to be installed within the footprint of the CEA/WRA shall be sampled annually for the parameters of concern. The first sample shall be collected prior to using the well. If contamination is detected, contact your local Health Department. If the contamination is above the Safe Drinking Water Standards, then the NJDEP Hotline should be called. Treatment is required for any well that has contamination above the Safe Drinking Water Standards.
- 3. Any proposed high capacity production wells in the immediate vicinity of the CEA/WRA should be pre-evaluated to determine if pumping from these wells would draw a portion of the contaminant plume into the cone of capture of the production wells or alter the configuration of the contaminant plume.

APPENDIX O





GZA GEOENVIRONMENTAL, INC. **ENGINEERS AND SCIENTISTS**

LETTER OF TRANSMITTAL

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	Town of Fairfield				Unimatic Manufactu	ring Company	
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-	Fairfield, NJ 07004		•				
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Sandra Huber



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GZA GEOENVIRONMENTAL, INC.

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	•	Trenton, NJ 08625						
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JOB NO.:

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11/2/2009

55 Lane Road, 4th Floor

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	COPIES	DATE	NO.					DESCRIF	TION		
	1	10/22/2009		Unimatic Ne	wspape	r AD (Star I	Ledger)			
	1	10/30/09		Sensitive Po	pulation	ulation & Resource Checklist					
	1			List of Recip	ients of	f Notification	n Lette	r and Fact	Sheet		
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C	OPY TO	File				SIGNED:	S	Sandra Hu	ber		

DATE:

If enclosures are not as noted, kindly notify us at once.

reent, according to the person niliar with the administration's

At the financial products divin of AIG, the giant insurance any which has received taxer assistance valued at more in \$180 billion, no top executive I receive more than \$200,000 in al compensation, the person niliar with Feinberg's plan said. e administration also will warn I it must fulfill a commitment significantly reduce the \$198 lion in bonuses promised to ployees in its financial services ision, the arm of the company ose risky trades caused its wnfall.

The pay restrictions for all sevcompanies will require any extive seeking more than \$25,000 special benefits — things such country club memberships, prie planes and company cars zet permission for those perks n the government.

'einberg's decisions on pay ne after administration ofals voiced sharp criticism in ent days of the plans of Wall eet firms to pay huge bonuses i time when the country is still ing with rising unemployment. I the effects of the recession.

In Sunday, Obama senior ad-David Axelrod called the bo-"offensive."

T AWARD

et and awarded the following pursuant to 18A:18A.5a (1). (s) listed below are available Business located at 715 park

00 a.m. to 4	:00 p.m., Monda
Contract Pe- riod	Contract Amount
2 Years	\$146,560.00
2 Years	\$321,000.00
2 Years	\$75,910.00
2009-2010 school year	. \$325.00 per case
2 Years	179,300.00
September 21, 2009-May 19, 2010	Not to Exceed \$15,000.00
3 days TBD	Not to Exceed \$9,100.00
2009-2010	\$14,000.00
36 weeks within the	\$292.50 per wk at a to-

Although no one waits in long lines for a new edition of Windows software anymore, the debut of Microsoft's latest operating system is part of why buying a PC is starting to feel fun for the first time in years.

Windows 7 is expected to work better than its predecessor. Vista. At the same time, Microsoft's marketing has gotten savvier and PC makers have followed Apple's lead and improved hardware design. Windows computers suddenly seem a lot less utilitarian.

"If you line up the six or seven most interesting PC designs, people will say, 'Wow, I didn't know all of that could be done with a PC,' " Microsoft chief executive Steve Ballmer said in an inter-

Windows 7, which becomes available today, is designed to look cleaner than Vista, streamlining the ways people can get to work, with fewer clicks and fewer annoying notifications. Setting up home networking to share photos and music won't require an advanced degree in information technology. Plugging in a new device won't set off a mad hunt online for driver software, which tells the equipment how to work with an oper-



COUNTY OF UNION

Notice To Bidders SEALED BIDS will be received by the Director of the Division of Purchasing of the County of Purchasing of the County of Union, New Jersey or his designee on November 5, 2009, at 2:00 p.m. prevailing time in the 3rd Floor Conference Room, U.C. Administration Building, 10 Elizabethtown Plaza, Elizabeth, ew Jersey for: ONE (1) DUMP TRUCK WITH SNOW

PLOW & SALT SPREADER

accordance with specifications and forms of the bid packages furnished by the Division of Purchasing. The County reserves the right to reject any and all bids and to waive any and all informalities in the bid.

Bids shall be submitted in a sealed envelope and clearly marked with the subject of the bid, name and address of the bidder, phone & fax number, and date of the bid opening. Each bid must be delivered to reach the Division of Purchasing prior to the stated time of the opening of the bids. No late bids will be accepted. The County will not be responsible for late delivery by the U.S. Mail or any other carrier.

Bidders are required to comply the requirements M.J.S.A. 10:5-31 et. seq. and N.J.A.C. 17:27.

Bid packages may be obtained in person from the Division Purchasing (3rd floor), County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey Elizabethtown

Making a version of Windows that people like, rather than tolerate, is critical for Microsoft. Most people don't choose Windows as much as they end up with it, because it's familiar and affordable. But it's conceivable Microsoft will have to work harder to win people over thanks to a small but growing threat from Apple's Macs and a forthcoming PC operating system from Web search nemesis Googie.

Vista fell flat because it didn't work with many existing programs and hardware. Microsoft fixed many of Vista's flaws but didn't spread the word, instead allowing Apple to attack with ads that pit a dorky office stiff (PC) against a casual creative type (Mac) and paint Vista PCs as unjustifiably complex.

experiment with size, shape and color at all price levels.

Netbooks, the tiny, inexpensive, low-powered laptops that have been the PC industry's saving grace through the recession. are no longer just shrunken corporate PCs. Microsoft stumbled by making Vista too lumbering to run on netbooks, but even premium versions of Windows 7 will work on the little devices.

Even mid-range notebooks costing \$500 to \$800, now have enormous screens and custom covers. At the higher end, PC makers have adopted Apple's thin-and-light concept and etched patterns into sleek metal cases. Windows 7 feeds into this design craze in part by adding deeper support for touch-screen controls, leading such PC makto add "multitouch" s respond to finger ges

The plummeting c ory and computing ; this shift possible. No puter is good enough Web and do most dai cause nearly all have sors and massive har instead of racing to most gigahertz or gi makers are zeroing in

PC makers plan to latest in colorful and machines today, an o that was possible bec soft coordinated with earlier than usual.

NTRANSIT The Way To Go.

INVITATION FOR BID MARKET STREET GARAGE FUELING RELOCATION PATERSON, NEW JERSEY SEALED BID NO. 10-03: Notice is hereby g sealed bids will bi by NJ TRANSIT's # Department at the specified below for STREET GARAGE BUS LA RELOCATION, PATERS
JERSEY until 10:00am December 15, 2009. The work under this for Bids generally of furnishing complmaterials and other re for the installation lanes at the Market Garage. In general t shall include but not to: Complete insta two (2) fuel lanes as on the drawings provi package and perform the Sequence of work as Exhibit SP1 provi package. Related and construction accommodate new fuel utility rooms. Al plumbing and electr including new instal in to/of existing con environmental, electr and fire systems and d grading and paving o parking lot to approaching lames for entering the new fuel All work must be conformance with the and specifications pr the bid documents. All firms must be by NJ TRANSIT submitting a bid must be prequalified Construction "HC" "Fire Protection" in a classification c Contractor "GC" and rating of "I" \$ rating of €1 \$2,000,000. Prequ questionnaires are in the Bid Documents. prequalification forms submitted to NJ TRAN Desk at least fifteen days (Friday, November prior to the schee opening date. Late s may not be considered Interested firms m all pertinent Bid through NJ TRANSIT's at the address below Document availability holder lists may be of telephone at (973) 491 Oocuments WILL NOT be I

can only be picked up

TRANSIT The Way To Go.

PURCHASE OF TWO 6 MAN LINE TRUCK, 25, 500 POUNDS GVWR SEALED BID NO. 10-035 Notice is hereby given that sealed bids will be received by NJ TRANSIT'S Procurement Department at the address specified below for the Purchase of Two 6 Man Line Truck, 25, 500 Pounds GWR until 2:00 p.m., November 20, 2009. Interested firms may obtain all pertinent bid documents by contacting NJ Transit's Bid Desk at the address below or by telephone at (973) 491-7546. Bids must be submitted in a sealed envelope and addressed

as follows: NO TRANSIT Procurement Denartment One Penn Plaza East Newark, N.J. 07105-2246 Re: Sealed Bid No. 10-035 Attn: Bid Desk

Bidders will be responsible for Bidders will be responsible for the delivery of their bids. Reliance on the U.S. Mail or other carriers is at bidder's risk. Late bids will not be considered

A pre-bid conference 1s scheduled for 10:00 a.m., Thursday, October 29, 200 Thursday, October 29, 2009 at NJ Transit Corp., One Penn Plaza East, Newark, N.J. All interested parties are urged to attend.

The successful proposer subcontractors are required to comply with the State of New Jersey, Division of Revenue Business Registration Revenue Business Registration Certificate requirements (P.L. 2004, c.57). Contractors or Subcontractors shall not engage in the performance of any-work, unless the Contractor Subcontractor is registered with the New Jersey Department Labor and Department of Treasury Division of Revenue. as required. In addition, the requirements of Executive Order 117 and P.L. 2005, c.51 concerning political disclosure apply to this project.

It is the policy of NJ TRANSIT that bidders are to comply with the requirements of P.L.1975, c 127, regarding Equal Opportunity Laws and Regulations. NJ TRANSIT further requires that its contractors shall agree to take all necessary and responsible steps in accordance with N.J.A.C. 12A: 10A-1.1 et seq.

UNIMATIC NEWSPAPER AD FOR THE STAR LEDGER Notification of Environmental Investigation And Cleanup Former Unimatic Manufacturing Corp. Site 25 Sherwood Lane, Fairfield, NJ (Block 2302, Lot 8)

NJDEP Preferred Identification #99235

October 15, 2009 In accordance with New Jersey Department of Environmental Protection (NJDEP) regulations for "Notification and Public Outreach," Unimatic Manufacturing Corp. provides herein information relating to environmental investigative and remedial activities being at conducted the referenced site.

Former operations conducted at the site included die casting conducted from 1954 until 2001. The source of the contamination is believed to be from PCB-contaminated oil which was used in the die casting process and leaked to the subsurface from floor trenches in the manufacturing building. Chemicals associated with site operations include, but may not be limited to. polychlorinated biphenyls (PCBs) that were initially detected in the soil in 2001, and later in the groundwater. Since that time, Unimatic has determined time, Unimatic has determined that the contamination in the soil has migrated from the site to a neighboring property. Soil and groundwater delineation activities are continuing so that delineation the full extent of contamination can be determined.

conducting Unimatic is Investigative and remedial activities in accordance with the requirements of the NUDEP to address the chemical contaminants detected. Unimatic is also evaluating the environmental impacts from the site, including sensitive receptors in the area, in order to ensure that any impacts from the contamination are promptly mitigated.

For additional information or to obtain a copy of the complete fact sheet for this site, please contact Benjamin Alter at (973) 774-3309. 774-3309. You may also direct questions to the NJDEP Office of Community Relations at (609)

\$2,628.65

Borough of Roselle Park Union County Public Auction Notice

LIST OF RECIPIENTS OF NOTIFICATION LETTER AND FACT SHEET

Lastname	Firstname	Mailingaddress	Municipality	State	pcode PropertyID
• •	Faircorp Assoc. LLC/Hudson Equity	115 Chris Columbus Drive	Jersey City	NJ 🔭	07302 8 Kingsbridge Road
	Faircorp Assoc. LLC/Hudson Equity	115 Chris Columbus Drive	Jersey City	NU 💮 💥	07302 6 Kingsbridge Road
J	Morris Bea Realty LLC	30 Sherwood Lane Unit 2	Fairfield	NJ 😓	07003 30 Sherwood Lane Unit 2
ı	Sweet Three LLC	254 Little Falls Road	Fairfield	NJ	07004 30 Sherwood Lane Unit 3
	Kenyu Enterprises LLC	127 Mountain View Boulevard	Wayne	NJ	07470 30 Sherwood Lane Unit 4
	30 Sherwood Lane V LLC	25 Windsor Drive	Pine Brook	NJ	07058 30 Sherwood Lane Unit 5
	Tul-Fra Fairfield I LLC	1515 Broad Street	Bloomfield	NU 🚶 🧬	07003 30 Sherwood Lane Unit 6
•	SSG Enterprises Inc.	10 Battle Ridge Trail	Totowa	NJ.	07512 30 Sherwood Lane Unit 7
Kadir	Syed Adbul	30 Sherwood Lane Unit 8	Fairfield	กั้	07004 30 Sherwood Lane Unit 8
	Specialized Sales & Service LLC	30 Sherwood Lane Unit 9	Fairfield	NJ .	07004 30 Sherwood Lane Unit 9
	TSBrock LLC	30 Sherwood Lane	Fairfield	NJ .	07004 30 Sherwood Lane Unit 10
	Slade Management LLC	30 Sherwood Lane Unit 11	Fairfield	NJ	07004 30 Sherwood Lane Unit 11
	Sayed Inc.	19 Stonehedge Lane	Madison	NU	07940 30 Sherwood Lane Unit 12
	JMV Associates LLC	251 Grove Avenue	Verona	NU	07044 30 Sherwood Lane Unit 1A
	Rahn Realty LLC	799 Route 46 #207	Parsippany	NJ	07054 30 Sherwood Lane Unit 1B
•	Blue Water Equities LLC	30 Sherwood Lane Unit 10A	Fairfield	NJ	07004 30 Sherwood Lane Unit 10A
	CHA Properties LLC	271 Route 46 West	Fairfield	NJ -	07004 21 Sherwood Lane
•	JMCB Properties UC	17 Sherwood Lane	Fairfield	NJ	07004 17 Sherwood Lane
	National Precision Tool Co. Inc.	24 Sherwood Lane	Fairfield	NJ	07006 24 Sherwood Lane
	238 Passaic Avenue LLC	238 Passaic Avenue	Fairfield	NJ	07004 238 Passaic Avenue
		NJDEP, Bureau of Field			•
	**	Operations			•
	•	401 East State Street			
Faules 1	Gene	P.O. Box 435	Trenton	Ni	08625
Fowler	Gene .	Municipal Clerk, Town of			
Cafone	Denise D	Fairfield, 230 Fairfield Rd	Fairfield	NJ	07004
Carone	Detrise D	Municipal Clerk, Town of	Turricio	•••	
	Health Department	Fairfield, 230 Fairfield Rd	Fairfield	NJ	07004
	nearth behaviorent	Division of Remediation Support,			
	· ·	NJDEP, 401 East State St, 6th			
	NIDEP Office of Community Relations	Floor, PO Box 413	Trenton	NJ.	08625
•	MODEL CHICE OF CORRESPOND VEISIONS	11001,10 000 723		****	